GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 12:38:32 ; Search time 14 Seconds
(without alignments)
55.314 Million cell updates/sec

Title: US-09-308-027A-142
Perfect score: 76
Sequence: 1 LKLTSGKIASCLNDN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	76	100.0	127	3	US-08-467-023-190	Sequence 190, App
2	76	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	45	59.2	24	3	US-08-467-023-192	Sequence 192, App
4	42	55.3	159	4	US-09-252-991A-18982	Sequence 18982, A
5	42	55.3	740	4	US-09-252-991A-21187	Sequence 21187, A
6	41	53.9	506	4	US-09-107-532A-5363	Sequence 5363, Ap
7	39	51.3	104	4	US-09-148-545-165	Sequence 165, App
8	39	51.3	638	4	US-09-228-986-74	Sequence 74, Appl
9	38	50.0	437	4	US-09-934-901-16	Sequence 16, Appl
10	38	50.0	492	4	US-09-107-532A-6385	Sequence 6385, Ap
11	38	50.0	505	3	US-08-627-907A-2	Sequence 2, Appli
12	37	48.7	190	4	US-09-328-352-6154	Sequence 6154, Ap
13	37	48.7	336	4	US-09-533-029-58	Sequence 58, Appl
14	37	48.7	353	4	US-09-489-039A-7347	Sequence 7347, Ap
15	37	48.7	368	4	US-09-614-912-38	Sequence 38, Appl
16	37	48.7	505	3	US-08-627-907A-4	Sequence 4, Appli
17	37	48.7	522	4	US-09-252-991A-26377	Sequence 26377, A
18	37	48.7	580	1	US-08-420-235B-15	Sequence 15, Appl
19	37	48.7	580	3	US-08-793-624-15	Sequence 15, Appl
20	37	48.7	580	5	PCT-US95-10194-15	Sequence 15, Appl
21	37	48.7	862	4	US-09-328-352-5527	Sequence 5527, Ap
22	36	47.4	76	4	US-09-134-001C-4377	Sequence 4377, Ap
23	36	47.4	156	4	US-09-543-681A-7593	Sequence 7593, Ap
24	36	47.4	211	4	US-09-493-914-3	Sequence 3, Appli
25	36	47.4	289	2	US-08-741-437-1	Sequence 1, Appli
26	36	47.4	289	2	US-09-134-593-1	Sequence 1, Appli
27	36	47.4	410	1	US-08-073-807A-16	Sequence 16, Appl
28	36	47.4	538	1	US-08-258-261B-2	Sequence 2, Appli
29	36	47.4	538	1	US-08-456-837-2	Sequence 2, Appli
30	36	47.4	538	1	US-08-457-342-2	Sequence 2, Appli
31	36	47.4	538	1	US-08-457-646A-2	Sequence 2, Appli
32	36	47.4	538	1	US-08-458-076A-2	Sequence 2, Appli
33	36	47.4	538	1	US-08-457-335A-2	Sequence 2, Appli
34	36	47.4	538	2	US-08-729-214-2	Sequence 2, Appli
35	36	47.4	538	2	US-08-729-214-24	Sequence 24, Appl
36	36	47.4	538	3	US-09-028-934-2	Sequence 2, Appli
37	36	47.4	538	3	US-09-028-934-24	Sequence 24, Appl
38	36	47.4	571	4	US-09-149-476-481	Sequence 481, App
39	36	47.4	719	4	US-09-107-532A-5992	Sequence 5992, Ap
40	36	47.4	2182	2	US-08-487-826B-16	Sequence 16, Appl
41	35	46.1	133	4	US-09-328-352-5041	Sequence 5041, Ap
42	35	46.1	202	4	US-09-205-258-344	Sequence 344, App
43	35	46.1	245	4	US-09-328-352-6397	Sequence 6397, Ap
44	35	46.1	289	2	US-08-741-437-4	Sequence 4, Appli
45	35	46.1	289	2	US-09-134-593-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-467-023-190
; Sequence 190, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-190

Query Match 100.0%; Score 76; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 LKLTSGKIASCLNDN 15
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Db         13 LKLTSGKIASCLNDN 27
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RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 76; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 LKLTSGKIASCLNDN 15
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Db        400 LKLTSGKIASCLNDN 414
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RESULT 3
US-08-467-023-192
; Sequence 192, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-192

Query Match 59.2%; Score 45; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db         15 LKLTSGKIAS 24
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RESULT 4
US-09-252-991A-18982
; Sequence 18982, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190

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;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 18982
;   LENGTH: 159
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18982

  Query Match             55.3%;  Score 42;  DB 4;  Length 159;
  Best Local Similarity   60.0%;  Pred. No. 3.8;
  Matches    9;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCLNDN 15
              |||:||   |||  |
Db         28 LKLSSGCFLSCLKKN 42


RESULT 5
US-09-252-991A-21187
; Sequence 21187, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 21187
;   LENGTH: 740
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21187

  Query Match             55.3%;  Score 42;  DB 4;  Length 740;
  Best Local Similarity   71.4%;  Pred. No. 21;
  Matches   10;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 KLTSGKIASCLNDN 15
              ||||||||  |  |
Db        431 KLTSGKIAHLLAPN 444


RESULT 6
US-09-107-532A-5363
; Sequence 5363, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 5363:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 506 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...506
;        SEQUENCE DESCRIPTION: SEQ ID NO: 5363:
US-09-107-532A-5363

  Query Match             53.9%;  Score 41;  DB 4;  Length 506;
  Best Local Similarity   77.8%;  Pred. No. 21;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 SGKIASCLN 13
              |||:|:|||
Db        184 SGKLATCLN 192


RESULT 7
US-09-148-545-165
; Sequence 165, Application US/09148545
; Patent No. 6590075
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 70 Human Secreted Proteins
;  FILE REFERENCE: PZ001P1
;  CURRENT APPLICATION NUMBER: US/09/148,545
;  CURRENT FILING DATE: 1998-09-04
;  EARLIER APPLICATION NUMBER: PCT/US98/04482
;  EARLIER FILING DATE: 1998-03-06
;  EARLIER APPLICATION NUMBER: 60/040,162
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/040,333
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/038,621
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/040,161
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/040,626
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/040,334
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/040,336
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/040,163
;  EARLIER FILING DATE: 1997-03-07
;  EARLIER APPLICATION NUMBER: 60/047,615
;  EARLIER FILING DATE: 1997-05-23
;  EARLIER APPLICATION NUMBER: 60/047,600
;  EARLIER FILING DATE: 1997-05-23
;  EARLIER APPLICATION NUMBER: 60/047,597
;  EARLIER FILING DATE: 1997-05-23
;  EARLIER APPLICATION NUMBER: 60/047,502
;  EARLIER FILING DATE: 1997-05-23
;  EARLIER APPLICATION NUMBER: 60/047,633
;  EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,583
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,617
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; EARLIER APPLICATION NUMBER: 60/047,618
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,503
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,592
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,581
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,584
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,500
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; EARLIER APPLICATION NUMBER: 60/047,587
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,492
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,598
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,613
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,582
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,596
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,612
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,632
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; EARLIER APPLICATION NUMBER: 60/047,601
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,568
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,314
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; EARLIER APPLICATION NUMBER: 60/043,569
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,311
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,671
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; EARLIER APPLICATION NUMBER: 60/043,674
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,669
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,312
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; EARLIER APPLICATION NUMBER: 60/043,313
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,672
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,315
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,893
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; EARLIER APPLICATION NUMBER: 60/056,872
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; EARLIER APPLICATION NUMBER: 60/056,892
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/047,595
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/057,761
; EARLIER FILING DATE: 05-Sep-1997
; EARLIER APPLICATION NUMBER: 60/047,599
; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,590
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,589
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,593
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,614
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,578
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,576
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/047,501
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,670
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/056,632
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,664
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,876
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,881
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,909
; EARLIER FILING DATE: 1997-08-22

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;  EARLIER APPLICATION NUMBER: 60/056,875
;  EARLIER FILING DATE: 1997-08-22
;  EARLIER APPLICATION NUMBER: 60/056,862
;  EARLIER FILING DATE: 1997-08-22
;  EARLIER APPLICATION NUMBER: 60/056,887
;  EARLIER FILING DATE: 1997-08-22
;  EARLIER APPLICATION NUMBER: 60/056,908
;  EARLIER FILING DATE: 1997-08-22
;  EARLIER APPLICATION NUMBER: 60/048,964
;  EARLIER FILING DATE: 1997-06-06
;  EARLIER APPLICATION NUMBER: 60/057,650
;  EARLIER FILING DATE: 1997-09-05
;  EARLIER APPLICATION NUMBER: 60/056,884
;  EARLIER FILING DATE: 1997-08-22
;  NUMBER OF SEQ ID NOS: 280
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 165
;   LENGTH: 104

  Query Match             51.3%;  Score 39;  DB 4;  Length 104;
  Best Local Similarity   66.7%;  Pred. No. 8.4;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCL 12
              |: | ||||:||
Db         13 LQKTIGKIATCL 24


RESULT 8
US-09-228-986-74
; Sequence 74, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
;  APPLICANT: Strabala, Timothy
;  APPLICANT: Nieuwenhuizen, Niels
;  TITLE OF INVENTION: Compositions Isolated from Plant Cells
;  TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
;  FILE REFERENCE: 11000/1020
;  CURRENT APPLICATION NUMBER: US/09/228,986
;  CURRENT FILING DATE: 1999-01-12
;  NUMBER OF SEQ ID NOS: 130
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 74
;   LENGTH: 638
;   TYPE: PRT
;   ORGANISM: Pinus radiata
US-09-228-986-74

  Query Match             51.3%;  Score 39;  DB 4;  Length 638;
  Best Local Similarity   46.2%;  Pred. No. 64;
  Matches    6;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 LTSGKIASCLNDN 15
              : :| :|||| |:
Db        392 MPNGSVASCLRDH 404


RESULT 9
US-09-934-901-16
; Sequence 16, Application US/09934901
; Patent No. 6555353
; GENERAL INFORMATION:
;  APPLICANT: Koffas, Mattheos
;  APPLICANT:  Odom, J. Martin
;  APPLICANT:  No. 6555353ton, Kelley C.
;  APPLICANT:  Ye, Rick
;  TITLE OF INVENTION: DENITRIFYING METHANOTROPHIC BACTERIAL STRAIN
;  FILE REFERENCE: CL1619 US NA
;  CURRENT APPLICATION NUMBER: US/09/934,901
;  CURRENT FILING DATE:  2001-08-22
;  PRIOR APPLICATION NUMBER: 60/229,906
;  PRIOR FILING DATE: September 1, 2000
;  NUMBER OF SEQ ID NOS: 20
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 16
;   LENGTH: 437
;   TYPE: PRT
;   ORGANISM: METHYLOMONAS SP.
US-09-934-901-16

  Query Match             50.0%;  Score 38;  DB 4;  Length 437;
  Best Local Similarity   63.6%;  Pred. No. 64;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 LTSGKIASCLN 13
              ||:| :| |||
Db         38 LTAGGLAPCLN 48


RESULT 10
US-09-107-532A-6385
; Sequence 6385, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;  INFORMATION FOR SEQ ID NO: 6385:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 492 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...492
;       SEQUENCE DESCRIPTION: SEQ ID NO: 6385:
US-09-107-532A-6385

  Query Match             50.0%;  Score 38;  DB 4;  Length 492;
  Best Local Similarity   53.8%;  Pred. No. 73;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 LTSGKIASCLNDN 15
              ::|| || |: ||
```

```
Db        369 VSSGAIARCVYDN 381


RESULT 11
US-08-627-907A-2
; Sequence 2, Application US/08627907A
; Patent No. 6060302
;  GENERAL INFORMATION:
;    APPLICANT:  HIRANO, Naoto
;    APPLICANT:  HIRAI, Hisamaru
;    TITLE OF INVENTION:  HUMAN PHOSPHOLIPASE C-ALPHA AND DNA
;    TITLE OF INVENTION:  SEQUENCE ENCODING THE SAME
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  c/o FISH & NEAVE
;      STREET:  1251 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10020
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/627,907A
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 5-238402
;      FILING DATE:  24-SEP-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/JP94/01572
;      FILING DATE:  22-SEP-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  HALEY Jr., James F.
;      REGISTRATION NUMBER:  27,794
;      REFERENCE/DOCKET NUMBER:  SHGN-10
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (212) 596-9000
;      TELEFAX:  (212) 596-9090
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 505 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-627-907A-2

  Query Match             50.0%;  Score 38;  DB 3;  Length 505;
  Best Local Similarity   50.0%;  Pred. No. 75;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 KLTSGKIASCLNDN 15
              |:|||||   : :|
Db        226 KMTSGKIKKFIQEN 239


RESULT 12
US-09-328-352-6154
; Sequence 6154, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6154
;   LENGTH: 190
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-6154

  Query Match             48.7%;  Score 37;  DB 4;  Length 190;
  Best Local Similarity   50.0%;  Pred. No. 38;
  Matches    6;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          4 TSGKIASCLNDN 15
              ||  ::||:|:|
Db        164 TSVDVSSCMNNN 175


RESULT 13
US-09-533-029-58
; Sequence 58, Application US/09533029
; Patent No. 6664446
; GENERAL INFORMATION:
;  APPLICANT: Heard, Jacqueline
;  APPLICANT: Broun, Pierre
;  APPLICANT: Riechmann, Jose-Luis
;  APPLICANT: Keddie, James
;  APPLICANT: Pineda, Omaira
;  APPLICANT: Adam, Luc
;  APPLICANT: Samaha, Raymond
;  APPLICANT: Zhang, James
;  APPLICANT: Yu, Guo-Liang
;  APPLICANT: Ratcliffe, Oliver
;  APPLICANT: Pilgrim, Marsha
;  APPLICANT: Jiang, Cai-Zhong
;  APPLICANT: Reuber, Lynne
;  TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
;  FILE REFERENCE: MBI-010
;  CURRENT APPLICATION NUMBER: US/09/533,029
;  CURRENT FILING DATE: 2000-03-22
;  EARLIER APPLICATION NUMBER: 60/125,814
;  EARLIER FILING DATE: 1999-03-23
;  NUMBER OF SEQ ID NOS: 121
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
;   LENGTH: 336
;   TYPE: PRT
;   ORGANISM: Arabidopsis thaliana
;   FEATURE:
;   OTHER INFORMATION: G201
US-09-533-029-58

  Query Match             48.7%;  Score 37;  DB 4;  Length 336;
  Best Local Similarity   46.2%;  Pred. No. 73;
  Matches    6;  Conservative    5;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 LTSGKIASCLNDN 15
              ::|  ::|||||:
Db        213 ISSTPLSSCLNDD 225


RESULT 14
US-09-489-039A-7347
; Sequence 7347, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 7347
;   LENGTH: 353
;   TYPE: PRT
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; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-7347

Query Match 48.7%; Score 37; DB 4; Length 353;
Best Local Similarity 53.8%; Pred. No. 77;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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Qy          1 LKLTSGKIASCLN 13
              :|||:|   |||
Db        131 VKLTAGTHGGCLN 143
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RESULT 15
US-09-614-912-38
; Sequence 38, Application US/09614912
; Patent No. 6677502
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Rafalski, Antoni
; APPLICANT: Orozco, Buddy
; APPLICANT: Miao, Gou-Hau
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Lee, Jian Ming
; APPLICANT: Sakai, Hajime
; APPLICANT: Weng, Zude
; APPLICANT: Caimi, Perry G
; APPLICANT: Anderson, Shawn
; TITLE OF INVENTION: Plant Metabolism Genes
; FILE REFERENCE: BB1378 US NA
; CURRENT APPLICATION NUMBER: US/09/614,912
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: 60/143,401
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/143,412
; PRIOR FILING DATE: 1999-07-12
; PRIOR APPLICATION NUMBER: 60/146,650
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 60/170,906
; PRIOR FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: 60/172,959
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/172,946
; PRIOR FILING DATE: 1999-12-21
; NUMBER OF SEQ ID NOS: 204
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 38
; LENGTH: 368
; TYPE: PRT
; ORGANISM: Oryza sativa
US-09-614-912-38

Query Match 48.7%; Score 37; DB 4; Length 368;
Best Local Similarity 63.6%; Pred. No. 81;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          3 LTSGKIASCLN 13
              ||:|: ||||:
Db        276 LTNGRHASCLH 286
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Job time : 15 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:29:35 ; Search time 35.3333 Seconds
(without alignments)
117.031 Million cell updates/sec

Title: US-09-308-027A-142
Perfect score: 76
Sequence: 1 LKLTSGKIASCLNDN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	76	100.0	15	14	US-10-354-240-153	Sequence 153, App
2	76	100.0	20	14	US-10-354-240-162	Sequence 162, App
3	76	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
4	54	71.1	10	14	US-10-216-484-46	Sequence 46, Appl
5	54	71.1	10	14	US-10-384-933-46	Sequence 46, Appl
6	54	71.1	15	14	US-10-354-240-154	Sequence 154, App
7	45	59.2	12	14	US-10-354-240-6	Sequence 6, Appli
8	45	59.2	15	14	US-10-354-240-152	Sequence 152, App
9	45	59.2	80	14	US-10-354-240-1	Sequence 1, Appli
10	42	55.3	226	14	US-10-238-075-754	Sequence 754, App
11	42	55.3	226	14	US-10-238-075-1059	Sequence 1059, Ap
12	42	55.3	226	14	US-10-238-075-1433	Sequence 1433, Ap
13	41	53.9	129	12	US-10-424-599-247980	Sequence 247980,
14	40	52.6	420	12	US-10-425-114-50180	Sequence 50180, A
15	40	52.6	517	12	US-10-424-599-208795	Sequence 208795,
16	39.5	52.0	192	12	US-10-425-114-45152	Sequence 45152, A
17	39.5	52.0	574	12	US-10-425-114-63117	Sequence 63117, A
18	39	51.3	104	9	US-09-981-876-165	Sequence 165, App
19	39	51.3	104	10	US-09-148-545-165	Sequence 165, App
20	39	51.3	157	9	US-09-925-297-819	Sequence 819, App
21	39	51.3	316	12	US-10-296-115-1377	Sequence 1377, Ap
22	39	51.3	567	12	US-10-335-977-8530	Sequence 8530, Ap
23	39	51.3	567	12	US-10-335-977-8531	Sequence 8531, Ap
24	39	51.3	638	14	US-10-101-464A-74	Sequence 74, Appl
25	39	51.3	799	12	US-10-183-687-368	Sequence 368, App
26	38.5	50.7	2341	12	US-10-087-684-43	Sequence 43, Appl
27	38.5	50.7	2341	12	US-10-218-779-43	Sequence 43, Appl
28	38	50.0	96	11	US-09-864-408A-4014	Sequence 4014, Ap
29	38	50.0	396	15	US-10-369-493-22485	Sequence 22485, A
30	38	50.0	435	12	US-10-425-114-59643	Sequence 59643, A
31	38	50.0	437	9	US-09-934-901-16	Sequence 16, Appl
32	38	50.0	437	9	US-09-934-868-6	Sequence 6, Appli
33	38	50.0	437	10	US-09-941-947A-2	Sequence 2, Appli
34	38	50.0	437	14	US-10-320-924-16	Sequence 16, Appl
35	38	50.0	437	14	US-10-320-874-16	Sequence 16, Appl
36	38	50.0	505	10	US-09-978-418-46	Sequence 46, Appl
37	38	50.0	536	15	US-10-369-493-1992	Sequence 1992, Ap
38	38	50.0	544	9	US-09-925-301-869	Sequence 869, App
39	38	50.0	549	15	US-10-264-049-2849	Sequence 2849, Ap
40	38	50.0	816	15	US-10-369-493-3409	Sequence 3409, Ap
41	38	50.0	852	12	US-10-282-122A-62892	Sequence 62892, A
42	38	50.0	905	15	US-10-369-493-2550	Sequence 2550, Ap
43	37.5	49.3	1410	15	US-10-369-493-5714	Sequence 5714, Ap
44	37	48.7	71	12	US-10-424-599-195623	Sequence 195623,
45	37	48.7	110	12	US-10-424-599-273517	Sequence 273517,

ALIGNMENTS

RESULT 1
US-10-354-240-153
; Sequence 153, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 153
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 70
US-10-354-240-153

Query Match 100.0%; Score 76; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LKLTSGKIASCLNDN 15
||||||||||||||||
Db 1 LKLTSGKIASCLNDN 15

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RESULT 2
US-10-354-240-162
; Sequence 162, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 162
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(20)
;   OTHER INFORMATION: Figure 7, Row e
US-10-354-240-162

  Query Match             100.0%;  Score 76;  DB 14;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 1.9e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCLNDN 15
              |||||||||||||||
Db          1 LKLTSGKIASCLNDN 15


RESULT 3
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 76;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 7.2e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCLNDN 15
              |||||||||||||||
Db        400 LKLTSGKIASCLNDN 414


RESULT 4
US-10-216-484-46
; Sequence 46, Application US/10216484
; Publication No. US20030103976A1
; GENERAL INFORMATION:
;  APPLICANT: Serizawa, No. US20030103976A1ufusa
;  APPLICANT:  Haruyama, Hideyuki
;  APPLICANT:  Nakahara, Kaori
;  APPLICANT:  Tamaki, Ikuko
;  APPLICANT:  Takahashi, Tohru
;  TITLE OF INVENTION: Anti-Fas Antibodies
;  FILE REFERENCE: 980126CIP/HG
;  CURRENT APPLICATION NUMBER: US/10/216,484
;  CURRENT FILING DATE:  2002-08-09
;  PRIOR APPLICATION NUMBER: US/09/499,662
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: US 09/053,583
;  PRIOR FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 165
; SEQ ID NO 46
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-216-484-46

  Query Match             71.1%;  Score 54;  DB 14;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.0069;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 GKIASCLNDN 15
              ||||||||||
Db          1 GKIASCLNDN 10


RESULT 5
US-10-384-933-46
; Sequence 46, Application US/10384933
; Publication No. US20030170817A1
; GENERAL INFORMATION:
;  APPLICANT: Serizawa, No. US20030170817A1ufusa
;  APPLICANT:  Haruyama, Hideyuki
;  APPLICANT:  Nakahara, Kaori
;  APPLICANT:  Tamaki, Ikuko
;  APPLICANT:  Takahashi, Tohru
;  TITLE OF INVENTION: Anti-Fas Antibodies
;  FILE REFERENCE: 980126CIP/HG
;  CURRENT APPLICATION NUMBER: US/10/384,933
;  CURRENT FILING DATE:  2003-02-05
;  PRIOR APPLICATION NUMBER: US/09/499,662
;  PRIOR FILING DATE: 2000-02-09
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/053,583
;  PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-01
;  NUMBER OF SEQ ID NOS: 165
; SEQ ID NO 46
;   LENGTH: 10
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-384-933-46

  Query Match             71.1%;  Score 54;  DB 14;  Length 10;
  Best Local Similarity   100.0%;  Pred. No. 0.0069;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 GKIASCLNDN 15
              ||||||||||
Db          1 GKIASCLNDN 10


RESULT 6
US-10-354-240-154
; Sequence 154, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
```

```
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 154
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 71
US-10-354-240-154

  Query Match            71.1%;  Score 54;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.011;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 GKIASCLNDN 15
              ||||||||||
Db          1 GKIASCLNDN 10


RESULT 7
US-10-354-240-6
; Sequence 6, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-6

  Query Match            59.2%;  Score 45;  DB 14;  Length 12;
  Best Local Similarity  100.0%;  Pred. No. 0.33;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIAS 10
              ||||||||||
Db          3 LKLTSGKIAS 12


RESULT 8
US-10-354-240-152
; Sequence 152, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 152
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 69
US-10-354-240-152

  Query Match            59.2%;  Score 45;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.42;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIAS 10
              ||||||||||
Db          6 LKLTSGKIAS 15


RESULT 9
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match            59.2%;  Score 45;  DB 14;  Length 80;
  Best Local Similarity  100.0%;  Pred. No. 2.8;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIAS 10
              ||||||||||
Db         54 LKLTSGKIAS 63


RESULT 10
US-10-238-075-754
; Sequence 754, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
;  APPLICANT: I.N.S.E.R.M.
```

```
;  TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat
;  TITLE OF INVENTION:  E.coli, and biological uses of these polynucleotides and of thei
;  FILE REFERENCE: BLANDINE
;  CURRENT APPLICATION NUMBER: US/10/238,075
;  CURRENT FILING DATE:  2002-09-10
;  PRIOR APPLICATION NUMBER: 0003145
;  PRIOR FILING DATE: 2000-03-10
;  NUMBER OF SEQ ID NOS: 1576
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 754
;   LENGTH: 226
;   TYPE: PRT
;   ORGANISM: Escherichia coli
US-10-238-075-754

  Query Match             55.3%;  Score 42;  DB 14;  Length 226;
  Best Local Similarity   46.7%;  Pred. No. 30;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCLNDN 15
              | |  :|:: :|| ||
Db         91 LPLRNGRLITCLTDN 105


RESULT 11
US-10-238-075-1059
; Sequence 1059, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
;  APPLICANT: I.N.S.E.R.M.
;  TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat
;  TITLE OF INVENTION:  E.coli, and biological uses of these polynucleotides and of thei
;  FILE REFERENCE: BLANDINE
;  CURRENT APPLICATION NUMBER: US/10/238,075
;  CURRENT FILING DATE:  2002-09-10
;  PRIOR APPLICATION NUMBER: 0003145
;  PRIOR FILING DATE: 2000-03-10
;  NUMBER OF SEQ ID NOS: 1576
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1059
;   LENGTH: 226
;   TYPE: PRT
;   ORGANISM: Escherichia coli
US-10-238-075-1059

  Query Match             55.3%;  Score 42;  DB 14;  Length 226;
  Best Local Similarity   46.7%;  Pred. No. 30;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCLNDN 15
              | |  :|:: :|| ||
Db         91 LPLRNGRLITCLTDN 105


RESULT 12
US-10-238-075-1433
; Sequence 1433, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
;  APPLICANT: I.N.S.E.R.M.
;  TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat
;  TITLE OF INVENTION:  E.coli, and biological uses of these polynucleotides and of thei
;  FILE REFERENCE: BLANDINE
;  CURRENT APPLICATION NUMBER: US/10/238,075
;  CURRENT FILING DATE:  2002-09-10
;  PRIOR APPLICATION NUMBER: 0003145
;  PRIOR FILING DATE: 2000-03-10
;  NUMBER OF SEQ ID NOS: 1576
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1433
;   LENGTH: 226
;   TYPE: PRT
;   ORGANISM: Escherichia coli
US-10-238-075-1433

  Query Match             55.3%;  Score 42;  DB 14;  Length 226;
  Best Local Similarity   46.7%;  Pred. No. 30;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCLNDN 15
              | |  :|:: :|| ||
Db         91 LPLRNGRLITCLTDN 105


RESULT 13
US-10-424-599-247980
; Sequence 247980, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247980
;   LENGTH: 129
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_65957C.1.pep
US-10-424-599-247980

  Query Match             53.9%;  Score 41;  DB 12;  Length 129;
  Best Local Similarity   66.7%;  Pred. No. 24;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LKLTSGKIASCL 12
              |:| ||:| |||
Db         63 LRLISGRIPSCL 74


RESULT 14
US-10-425-114-50180
; Sequence 50180, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 50180
;   LENGTH: 420
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700849362_FLI.pep
US-10-425-114-50180

  Query Match             52.6%;  Score 40;  DB 12;  Length 420;
  Best Local Similarity   50.0%;  Pred. No. 1.4e+02;
  Matches    6;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 LTSGKIASCLND 14
```

```
              :::| :|||| |
Db        171 MSNGSVASCLRD 182


RESULT 15
US-10-424-599-208795
; Sequence 208795, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 208795
;   LENGTH: 517
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(517)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_30570C.1.pep
US-10-424-599-208795

  Query Match             52.6%;  Score 40;  DB 12;  Length 517;
  Best Local Similarity   50.0%;  Pred. No. 1.7e+02;
  Matches    6;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 LTSGKIASCLND 14
              :::| :|||| |
Db        268 MSNGSVASCLRD 279


Search completed: April 19, 2004, 12:40:55
Job time : 36.3333 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 12:38:32 ; Search time 14 Seconds
(without alignments)
55.314 Million cell updates/sec

Title: US-09-308-027A-23
Perfect score: 67
Sequence: 1 LSDISLKLTSGKIAS 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	67	100.0	24	3	US-08-467-023-192	Sequence 192, App
2	67	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	53	79.1	127	3	US-08-467-023-190	Sequence 190, App
4	48	71.6	252	4	US-09-489-039A-14081	Sequence 14081, A
5	44	65.7	152	4	US-08-858-207A-335	Sequence 335, App
6	44	65.7	344	4	US-09-540-236-2702	Sequence 2702, Ap
7	40	59.7	303	4	US-09-107-532A-5192	Sequence 5192, Ap
8	38	56.7	246	4	US-09-489-039A-13116	Sequence 13116, A
9	38	56.7	543	4	US-09-489-039A-13181	Sequence 13181, A
10	37	55.2	524	4	US-09-543-681A-4787	Sequence 4787, Ap
11	37	55.2	740	4	US-09-252-991A-21187	Sequence 21187, A
12	37	55.2	881	4	US-09-489-039A-13851	Sequence 13851, A
13	36	53.7	113	4	US-09-614-912-186	Sequence 186, App
14	36	53.7	283	4	US-09-134-001C-5534	Sequence 5534, Ap
15	36	53.7	384	4	US-09-489-039A-9127	Sequence 9127, Ap
16	36	53.7	502	4	US-09-328-352-5891	Sequence 5891, Ap
17	36	53.7	581	4	US-09-543-681A-4472	Sequence 4472, Ap
18	35	52.2	121	4	US-09-134-000C-4339	Sequence 4339, Ap
19	35	52.2	138	4	US-09-134-001C-3167	Sequence 3167, Ap
20	35	52.2	264	4	US-09-489-039A-13118	Sequence 13118, A
21	35	52.2	383	3	US-08-836-261A-2	Sequence 2, Appli
22	35	52.2	394	4	US-09-107-532A-5184	Sequence 5184, Ap
23	35	52.2	456	3	US-09-268-364-21	Sequence 21, Appl
24	35	52.2	1186	1	US-08-485-568A-4	Sequence 4, Appli
25	35	52.2	1186	1	US-08-357-698-6	Sequence 6, Appli
26	35	52.2	1186	2	US-08-590-554A-4	Sequence 4, Appli
27	35	52.2	1186	2	US-09-184-223-4	Sequence 4, Appli
28	35	52.2	1186	5	PCT-US93-12682-6	Sequence 6, Appli
29	35	52.2	1391	4	US-09-106-568E-8	Sequence 8, Appli
30	35	52.2	2627	2	US-08-751-189-3	Sequence 3, Appli
31	35	52.2	2627	2	US-09-060-836-3	Sequence 3, Appli
32	35	52.2	2627	3	US-09-184-445-3	Sequence 3, Appli
33	34.5	51.5	717	4	US-08-924-629C-5	Sequence 5, Appli
34	34.5	51.5	916	4	US-09-543-681A-5205	Sequence 5205, Ap
35	34.5	51.5	916	4	US-09-489-039A-14125	Sequence 14125, A
36	34	50.7	139	4	US-09-621-976-4778	Sequence 4778, Ap
37	34	50.7	157	4	US-09-621-976-4779	Sequence 4779, Ap
38	34	50.7	168	3	US-08-975-762-37	Sequence 37, Appl
39	34	50.7	168	3	US-08-821-324-37	Sequence 37, Appl
40	34	50.7	168	3	US-09-295-028-37	Sequence 37, Appl
41	34	50.7	168	4	US-09-106-582-37	Sequence 37, Appl
42	34	50.7	168	4	US-09-159-469-37	Sequence 37, Appl
43	34	50.7	168	4	US-09-693-542-37	Sequence 37, Appl
44	34	50.7	181	4	US-09-134-000C-6440	Sequence 6440, Ap
45	34	50.7	226	4	US-09-198-452A-260	Sequence 260, App

ALIGNMENTS

```
RESULT 1
US-08-467-023-192
; Sequence 192, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  192:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  24 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
```

US-08-467-023-192

Query Match 100.0%; Score 67; DB 3; Length 24;
Best Local Similarity 100.0%; Pred. No. 4.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LSDISLKLTSGKIAS 15
              ||||||||||||||| 
Db         10 LSDISLKLTSGKIAS 24
```

RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 67; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 0.00015;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 LSDISLKLTSGKIAS 15
              ||||||||||||||| 
Db        395 LSDISLKLTSGKIAS 409
```

RESULT 3
US-08-467-023-190
; Sequence 190, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-190

Query Match 79.1%; Score 53; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          4 ISLKLTSGKIAS 15
              ||||||||||||
Db         11 ISLKLTSGKIAS 22
```

RESULT 4
US-09-489-039A-14081
; Sequence 14081, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342

; SEQ ID NO 14081
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-14081

Query Match 71.6%; Score 48; DB 4; Length 252;
Best Local Similarity 84.6%; Pred. No. 0.26;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKI 13
||||||.||.|||
Db 22 LSDISLALTPGKI 34

RESULT 5
US-08-858-207A-335
; Sequence 335, Application US/08858207A
; Patent No. 6348328
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; APPLICANT: Hodgson, John
; APPLICANT: Knowles, David
; APPLICANT: Nicholas, Richard
; APPLICANT: Stodola, Robert
; TITLE OF INVENTION: No. 6348328el Compounds
; NUMBER OF SEQUENCES: 552
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/858,207A
; FILING DATE: 09-MAY-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/017670
; FILING DATE: 14-MAY-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Gimmi, Edward R
; REGISTRATION NUMBER: 38,891
; REFERENCE/DOCKET NUMBER: P50475
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-4478
; TELEFAX: 610-270-5090
; TELEX:
; INFORMATION FOR SEQ ID NO: 335:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 152 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: No. 6348328e
US-08-858-207A-335

Query Match 65.7%; Score 44; DB 4; Length 152;
Best Local Similarity 53.3%; Pred. No. 0.83;
Matches 8; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKIAS 15
| ||:|::|||:: |
Db 19 LEDINLQVTSGEVVS 33

RESULT 6
US-09-540-236-2702
; Sequence 2702, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAI
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2702
; LENGTH: 344
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-2702

Query Match 65.7%; Score 44; DB 4; Length 344;
Best Local Similarity 71.4%; Pred. No. 2.1;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKIA 14
|:|||| | ||:||
Db 22 LTDISLHLKSGQIA 35

RESULT 7
US-09-107-532A-5192
; Sequence 5192, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 5192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 303 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature

```
;             LOCATION: (B) LOCATION 1...303
;        SEQUENCE DESCRIPTION: SEQ ID NO: 5192:
US-09-107-532A-5192

  Query Match             59.7%;  Score 40;  DB 4;  Length 303;
  Best Local Similarity   61.5%;  Pred. No. 11;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKI 13
              |||:|  |: |||
Db         21 LSDVSFSLSPGKI 33


RESULT 8
US-09-489-039A-13116
; Sequence 13116, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 13116
;   LENGTH: 246
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13116

  Query Match             56.7%;  Score 38;  DB 4;  Length 246;
  Best Local Similarity   53.8%;  Pred. No. 20;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKI 13
              | |||||:  |::
Db         23 LHDISLKINQGEV 35


RESULT 9
US-09-489-039A-13181
; Sequence 13181, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 13181
;   LENGTH: 543
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13181

  Query Match             56.7%;  Score 38;  DB 4;  Length 543;
  Best Local Similarity   61.5%;  Pred. No. 49;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKI 13
              | ||||:|  |:|
Db        315 LQDISLRLRKGEI 327


RESULT 10
US-09-543-681A-4787
; Sequence 4787, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABI
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4787
;   LENGTH: 524
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-4787

  Query Match             55.2%;  Score 37;  DB 4;  Length 524;
  Best Local Similarity   53.8%;  Pred. No. 73;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 DISLKLTSGKIAS 15
              ||:|||  |:: |
Db        502 DITLKLNKGQLVS 514


RESULT 11
US-09-252-991A-21187
; Sequence 21187, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 21187
;   LENGTH: 740
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21187

  Query Match             55.2%;  Score 37;  DB 4;  Length 740;
  Best Local Similarity   100.0%;  Pred. No. 1.1e+02;
  Matches    8;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          7 KLTSGKIA 14
              ||||||||
Db        431 KLTSGKIA 438


RESULT 12
US-09-489-039A-13851
; Sequence 13851, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 13851
```

```
;   LENGTH: 881
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13851

  Query Match             55.2%;  Score 37;  DB 4;  Length 881;
  Best Local Similarity   53.8%;  Pred. No. 1.3e+02;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKI 13
              |||:|: |  ||:
Db        690 LSDVSVDLLGGKL 702


RESULT 13
US-09-614-912-186
; Sequence 186, Application US/09614912
; Patent No. 6677502
; GENERAL INFORMATION:
;  APPLICANT:  Allen, Steve
;  APPLICANT:  Rafalski, Antoni
;  APPLICANT:  Orozco, Buddy
;  APPLICANT:  Miao, Gou-Hau
;  APPLICANT:  Famodu, Omolayo O.
;  APPLICANT:  Lee, Jian Ming
;  APPLICANT:  Sakai, Hajime
;  APPLICANT:  Weng, Zude
;  APPLICANT:  Caimi, Perry G
;  APPLICANT:  Anderson, Shawn
;  TITLE OF INVENTION:  Plant Metabolism Genes
;  FILE REFERENCE:  BB1378 US NA
;  CURRENT APPLICATION NUMBER: US/09/614,912
;  CURRENT FILING DATE:  2000-07-12
;  PRIOR APPLICATION NUMBER:  60/143,401
;  PRIOR FILING DATE:  1999-07-12
;  PRIOR APPLICATION NUMBER:  60/143,412
;  PRIOR FILING DATE:  1999-07-12
;  PRIOR APPLICATION NUMBER:  60/146,650
;  PRIOR FILING DATE:  1999-07-30
;  PRIOR APPLICATION NUMBER:  60/170,906
;  PRIOR FILING DATE:  1999-12-15
;  PRIOR APPLICATION NUMBER:  60/172,959
;  PRIOR FILING DATE:  1999-12-21
;  PRIOR APPLICATION NUMBER:  60/172,946
;  PRIOR FILING DATE:  1999-12-21
;  NUMBER OF SEQ ID NOS:  204
;  SOFTWARE:  Microsoft Office 97
; SEQ ID NO 186
;   LENGTH: 113
;   TYPE: PRT
;   ORGANISM: Zea mays
US-09-614-912-186

  Query Match             53.7%;  Score 36;  DB 4;  Length 113;
  Best Local Similarity   61.5%;  Pred. No. 19;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 SDISLKLTSGKIA 14
              ||: | |: ||||
Db         71 SDLVLVLSDGKIA 83


RESULT 14
US-09-134-001C-5534
; Sequence 5534, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 5534
;   LENGTH: 283
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-5534

  Query Match             53.7%;  Score 36;  DB 4;  Length 283;
  Best Local Similarity   46.7%;  Pred. No. 55;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKIAS 15
              | |||: :  ||: |
Db         41 LKDISVDIKKGKLTS 55


RESULT 15
US-09-489-039A-9127
; Sequence 9127, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 9127
;   LENGTH: 384
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9127

  Query Match             53.7%;  Score 36;  DB 4;  Length 384;
  Best Local Similarity   46.7%;  Pred. No. 79;
  Matches    7;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKIAS 15
              |:|||| : ||:: :
Db         38 LNDISLDIPSGQMVA 52


Search completed: April 19, 2004, 12:51:28
Job time : 15 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:29:35 ; Search time 35.3333 Seconds
(without alignments)
117.031 Million cell updates/sec

Title: US-09-308-027A-23
Perfect score: 67
Sequence: 1 LSDISLKLTSGKIAS 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	67	100.0	15	14	US-10-354-240-152	Sequence 152, App
2	67	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	53	79.1	12	14	US-10-354-240-6	Sequence 6, Appli
4	53	79.1	80	14	US-10-354-240-1	Sequence 1, Appli
5	45	67.2	15	14	US-10-354-240-153	Sequence 153, App
6	45	67.2	20	14	US-10-354-240-162	Sequence 162, App
7	44	65.7	15	14	US-10-354-240-151	Sequence 151, App
8	44	65.7	242	10	US-09-769-744A-72	Sequence 72, Appl
9	44	65.7	299	9	US-09-815-242-12958	Sequence 12958, A
10	44	65.7	299	9	US-09-815-242-13088	Sequence 13088, A
11	42	62.7	255	12	US-10-282-122A-43036	Sequence 43036, A
12	40	59.7	295	9	US-09-815-242-5269	Sequence 5269, Ap
13	40	59.7	299	9	US-09-815-242-12197	Sequence 12197, A
14	40	59.7	299	12	US-10-282-122A-44427	Sequence 44427, A
15	40	59.7	550	9	US-09-738-626-5843	Sequence 5843, Ap
16	40	59.7	644	15	US-10-108-260A-2689	Sequence 2689, Ap
17	40	59.7	1066	15	US-10-094-749-2550	Sequence 2550, Ap
18	38	56.7	222	12	US-10-424-599-162005	Sequence 162005,
19	38	56.7	240	12	US-10-282-122A-59938	Sequence 59938, A
20	38	56.7	241	12	US-10-282-122A-77497	Sequence 77497, A
21	38	56.7	251	12	US-10-282-122A-54577	Sequence 54577, A
22	38	56.7	267	12	US-10-425-114-56280	Sequence 56280, A
23	38	56.7	273	12	US-10-282-122A-77136	Sequence 77136, A
24	38	56.7	291	12	US-10-282-122A-75859	Sequence 75859, A
25	38	56.7	294	12	US-10-282-122A-52272	Sequence 52272, A
26	38	56.7	311	12	US-10-424-599-252529	Sequence 252529,
27	38	56.7	327	12	US-10-425-114-55058	Sequence 55058, A
28	38	56.7	398	15	US-10-225-068-74	Sequence 74, Appl
29	38	56.7	398	15	US-10-374-780A-356	Sequence 356, App
30	38	56.7	475	15	US-10-369-493-11979	Sequence 11979, A
31	38	56.7	548	15	US-10-374-780A-2170	Sequence 2170, Ap
32	38	56.7	576	12	US-10-424-599-216003	Sequence 216003,
33	37	55.2	44	12	US-10-424-599-164721	Sequence 164721,
34	37	55.2	57	11	US-09-864-408A-5808	Sequence 5808, Ap
35	37	55.2	196	12	US-10-424-599-261274	Sequence 261274,
36	37	55.2	233	12	US-10-335-977-9265	Sequence 9265, Ap
37	37	55.2	240	9	US-09-815-242-11360	Sequence 11360, A
38	37	55.2	240	9	US-09-815-242-11527	Sequence 11527, A
39	37	55.2	240	12	US-10-282-122A-58778	Sequence 58778, A
40	37	55.2	240	12	US-10-335-977-9266	Sequence 9266, Ap
41	37	55.2	240	12	US-10-335-977-9267	Sequence 9267, Ap
42	37	55.2	295	12	US-10-282-122A-51743	Sequence 51743, A
43	37	55.2	407	12	US-10-424-599-261841	Sequence 261841,
44	37	55.2	481	15	US-10-369-493-17301	Sequence 17301, A
45	37	55.2	482	15	US-10-369-493-2215	Sequence 2215, Ap

ALIGNMENTS

RESULT 1
US-10-354-240-152
; Sequence 152, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 152
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 69
US-10-354-240-152

Query Match 100.0%; Score 67; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.4e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKIAS 15
||||||||||||||||
Db 1 LSDISLKLTSGKIAS 15

```
RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 67;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 0.00081;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKIAS 15
              |||||||||||||||
Db        395 LSDISLKLTSGKIAS 409


RESULT 3
US-10-354-240-6
; Sequence 6, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-6

  Query Match             79.1%;  Score 53;  DB 14;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 0.0043;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 ISLKLTSGKIAS 15
              ||||||||||||
Db          1 ISLKLTSGKIAS 12


RESULT 4
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match             79.1%;  Score 53;  DB 14;  Length 80;
  Best Local Similarity   100.0%;  Pred. No. 0.038;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 ISLKLTSGKIAS 15
              ||||||||||||
Db         52 ISLKLTSGKIAS 63


RESULT 5
US-10-354-240-153
; Sequence 153, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 153
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 70
US-10-354-240-153

  Query Match             67.2%;  Score 45;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.17;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 LKLTSGKIAS 15
              ||||||||||
Db          1 LKLTSGKIAS 10


RESULT 6
US-10-354-240-162
; Sequence 162, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
```

```
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 162
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(20)
;   OTHER INFORMATION: Figure 7, Row e
US-10-354-240-162

  Query Match             67.2%;  Score 45;  DB 14;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.24;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 LKLTSGKIAS 15
              ||||||||||
Db          1 LKLTSGKIAS 10


RESULT 7
US-10-354-240-151
; Sequence 151, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 151
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 68
US-10-354-240-151

  Query Match             65.7%;  Score 44;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.26;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTS 10
              ||||||||||
Db          6 LSDISLKLTS 15


RESULT 8
US-09-769-744A-72
; Sequence 72, Application US/09769744A
; Publication No. US20030134407A1
; GENERAL INFORMATION:
;  APPLICANT: Le Page, Richard WF
;  APPLICANT:  Wells, Jeremy M
;  APPLICANT:  Hanniffy, Sean B
;  APPLICANT:  Hansbro, Philip M
;  TITLE OF INVENTION: Proteins
;  FILE REFERENCE: PWC/P21122WO
;  CURRENT APPLICATION NUMBER: US/09/769,744A
;  CURRENT FILING DATE:  2001-01-26
;  PRIOR APPLICATION NUMBER: PCT/GB99/02452
;  PRIOR FILING DATE: 1999-07-27
;  PRIOR APPLICATION NUMBER: GB 9816336.3
;  PRIOR FILING DATE: 1998-07-27
;  PRIOR APPLICATION NUMBER: US 60/125329
;  PRIOR FILING DATE: 1999-03-19
;  NUMBER OF SEQ ID NOS: 196
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 72
;   LENGTH: 242
;   TYPE: PRT
;   ORGANISM: Streptococcus pneumoniae
US-09-769-744A-72

  Query Match             65.7%;  Score 44;  DB 10;  Length 242;
  Best Local Similarity   53.3%;  Pred. No. 6.4;
  Matches    8;  Conservative    5;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKIAS 15
              | ||:|::|||:: |
Db         19 LEDINLQVTSGEVVS 33


RESULT 9
US-09-815-242-12958
; Sequence 12958, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
;  APPLICANT: Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari L.
;  APPLICANT:  Zyskind, Judith W.
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John D.
;  APPLICANT:  Carr, Grant J.
;  APPLICANT:  Yamamoto, Robert T.
;  APPLICANT:  Xu, H. Howard
;  TITLE OF INVENTION: Identification of Essential Genes in
;  TITLE OF INVENTION:  Prokaryotes
;  FILE REFERENCE: ELITRA.011A
;  CURRENT APPLICATION NUMBER: US/09/815,242
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  NUMBER OF SEQ ID NOS: 14110
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12958
;   LENGTH: 299
;   TYPE: PRT
;   ORGANISM: Staphylococcus aureus
```

US-09-815-242-12958

Query Match 65.7%; Score 44; DB 9; Length 299;
Best Local Similarity 69.2%; Pred. No. 8.1;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LSDISLKLTSGKI 13
              ::|||||| |||:
Db         18 VNDISLKLESGKM 30
```

RESULT 10
US-09-815-242-13088
; Sequence 13088, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13088
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-13088

Query Match 65.7%; Score 44; DB 9; Length 299;
Best Local Similarity 69.2%; Pred. No. 8.1;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 LSDISLKLTSGKI 13
              ::|||||| |||:
Db         18 VNDISLKLESGKM 30
```

RESULT 11
US-10-282-122A-43036
; Sequence 43036, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43036
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Escherichia coli
US-10-282-122A-43036

Query Match 62.7%; Score 42; DB 12; Length 255;
Best Local Similarity 53.3%; Pred. No. 16;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

```
Qy          1 LSDISLKLTSGKIAS 15
              |:|:|| | :||| :
Db         18 LNDVSLSLPTGKITA 32
```

RESULT 12
US-09-815-242-5269
; Sequence 5269, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5269
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-5269

Query Match 59.7%; Score 40; DB 9; Length 295;
Best Local Similarity 61.5%; Pred. No. 44;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKI 13
::||||:| |||:
Db 18 VNDISLELESGKM 30

RESULT 13
US-09-815-242-12197
; Sequence 12197, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12197
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-12197

Query Match 59.7%; Score 40; DB 9; Length 299;
Best Local Similarity 61.5%; Pred. No. 45;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKI 13
::||||:| |||:
Db 18 VNDISLELESGKM 30

RESULT 14
US-10-282-122A-44427
; Sequence 44427, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44427
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-282-122A-44427

Query Match 59.7%; Score 40; DB 12; Length 299;
Best Local Similarity 61.5%; Pred. No. 45;
Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSDISLKLTSGKI 13
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Db 18 VNDISLELESGKM 30

RESULT 15
US-09-738-626-5843
; Sequence 5843, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

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;  FILE REFERENCE: 249-125
;  CURRENT APPLICATION NUMBER: US/09/738,626
;  CURRENT FILING DATE:  2000-12-18
;  PRIOR APPLICATION NUMBER: JP 99/377484
;  PRIOR FILING DATE: 1999-12-16
;  PRIOR APPLICATION NUMBER: JP 00/159162
;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: JP 00/280988
;  PRIOR FILING DATE: 2000-08-03
;  NUMBER OF SEQ ID NOS: 7059
;  SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 5843
;   LENGTH: 550
;   TYPE: PRT
;   ORGANISM: Corynebacterium glutamicum
US-09-738-626-5843

  Query Match           59.7%;  Score 40;  DB 9;  Length 550;
  Best Local Similarity  64.3%;  Pred. No. 91;
  Matches    9;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LSDISLKLTSGKIA 14
              |||||| : :| ||
Db         23 LSDISLTVANGDIA 36


Search completed: April 19, 2004, 12:40:54
Job time : 35.3333 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-21
Perfect score: 82
Sequence: 1 IQLKCSDSMPCKDIK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	82	100.0	127	3	US-08-467-023-189	Sequence 189, App
2	82	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	51	62.2	24	3	US-08-467-023-192	Sequence 192, App
4	46	56.1	440	1	US-08-061-062A-6	Sequence 6, Appli
5	46	56.1	440	1	US-08-061-062A-8	Sequence 8, Appli
6	46	56.1	440	3	US-08-536-150-6	Sequence 6, Appli
7	46	56.1	440	3	US-08-536-150-8	Sequence 8, Appli
8	42	51.2	208	1	US-08-109-391A-4	Sequence 4, Appli
9	42	51.2	208	1	US-08-459-019A-4	Sequence 4, Appli
10	42	51.2	208	2	US-08-460-428A-4	Sequence 4, Appli
11	42	51.2	208	3	US-08-458-860A-4	Sequence 4, Appli
12	42	51.2	694	1	US-08-164-839-4	Sequence 4, Appli
13	42	51.2	694	1	US-08-583-799-4	Sequence 4, Appli
14	42	51.2	695	1	US-08-164-839-6	Sequence 6, Appli
15	42	51.2	695	1	US-08-583-799-6	Sequence 6, Appli
16	41	50.0	691	4	US-09-134-001C-4675	Sequence 4675, Ap
17	39	47.6	61	2	US-08-785-530-5	Sequence 5, Appli
18	39	47.6	61	2	US-09-123-850-5	Sequence 5, Appli
19	39	47.6	113	1	US-07-668-648-10	Sequence 10, Appl
20	39	47.6	113	2	US-08-429-998-10	Sequence 10, Appl
21	39	47.6	113	2	US-08-431-333-10	Sequence 10, Appl
22	39	47.6	113	5	PCT-US91-02321-10	Sequence 10, Appl
23	38.5	47.0	52	4	US-09-732-210-921	Sequence 921, App
24	38.5	47.0	1724	4	US-09-607-510-2	Sequence 2, Appli
25	38	46.3	152	4	US-09-402-016A-6	Sequence 6, Appli
26	38	46.3	462	4	US-09-640-419C-27	Sequence 27, Appl
27	38	46.3	1162	2	US-08-663-566A-15	Sequence 15, Appl
28	38	46.3	1162	2	US-08-023-610-15	Sequence 15, Appl
29	38	46.3	1162	2	US-08-288-065A-15	Sequence 15, Appl
30	38	46.3	1162	2	US-08-362-240A-15	Sequence 15, Appl
31	38	46.3	1162	5	PCT-US95-10245-15	Sequence 15, Appl
32	37.5	45.7	491	3	US-08-889-841B-10	Sequence 10, Appl
33	37.5	45.7	491	4	US-09-419-362-10	Sequence 10, Appl
34	37	45.1	38	4	US-09-857-401B-18	Sequence 18, Appl
35	37	45.1	111	4	US-09-252-991A-17096	Sequence 17096, A
36	37	45.1	113	3	US-08-685-808-6	Sequence 6, Appli
37	37	45.1	113	3	US-08-505-860C-6	Sequence 6, Appli
38	37	45.1	149	4	US-09-319-014B-2	Sequence 2, Appli
39	37	45.1	259	4	US-09-522-714-18	Sequence 18, Appl
40	37	45.1	380	1	US-08-416-478A-6	Sequence 6, Appli
41	37	45.1	380	2	US-08-474-988B-6	Sequence 6, Appli
42	37	45.1	380	2	US-08-394-442B-6	Sequence 6, Appli
43	37	45.1	405	4	US-09-252-991A-30240	Sequence 30240, A
44	37	45.1	457	6	5447867-1	Patent No. 5447867
45	37	45.1	470	1	US-08-416-478A-7	Sequence 7, Appli

ALIGNMENTS

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RESULT 1
US-08-467-023-189
; Sequence 189, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  189:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  127 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-189

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  Best Local Similarity   100.0%;  Pred. No. 7e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDIK 15
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Db        110 IQLKCSDSMPCKDIK 124


RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  134:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  514 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-134

  Query Match             100.0%;  Score 82;  DB 3;  Length 514;
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  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDIK 15
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Db        380 IQLKCSDSMPCKDIK 394


RESULT 3
US-08-467-023-192
; Sequence 192, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  192:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  24 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-192

  Query Match             62.2%;  Score 51;  DB 3;  Length 24;
  Best Local Similarity   100.0%;  Pred. No. 0.099;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 DSMPCKDIK 9


RESULT 4
US-08-061-062A-6
; Sequence 6, Application US/08061062A
; Patent No. 5550045
;  GENERAL INFORMATION:
;    APPLICANT:  MUSTERS, WOUTER
;    APPLICANT:  STAM, HEIN
;    APPLICANT:  SUYKERBUYK, MARIA E.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VERBAKEL, Johannes M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF DNA
;    TITLE OF INVENTION:  ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
;    TITLE OF INVENTION:  RHAMNOGALACTURONASE ACTIVITY
;    NUMBER OF SEQUENCES:  16
```

```
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      STREET:  1100 NEW YORK AVENUE, N.W.
;      CITY:  WASHINGTON, D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/061,062A
;      FILING DATE:  14 MAY 1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  KOKULIS, PAUL N.
;      REGISTRATION NUMBER:  16773
;      REFERENCE/DOCKET NUMBER:  202390/R 7262 (V)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
;      TELEX:  6714627 CUSH
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  440 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-061-062A-6

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  Best Local Similarity  50.0%;  Pred. No. 12;
  Matches    7;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDI 14
              |:: |||: || |:
Db        336 IRVVCSDTAPCTDL 349


RESULT 5
US-08-061-062A-8
; Sequence 8, Application US/08061062A
; Patent No. 5550045
;  GENERAL INFORMATION:
;    APPLICANT:  MUSTERS, WOUTER
;    APPLICANT:  STAM, HEIN
;    APPLICANT:  SUYKERBUYK, MARIA E.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VERBAKEL, Johannes M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF DNA
;    TITLE OF INVENTION:  ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
;    TITLE OF INVENTION:  RHAMNOGALACTURONASE ACTIVITY
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      STREET:  1100 NEW YORK AVENUE, N.W.
;      CITY:  WASHINGTON, D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/061,062A
;      FILING DATE:  14 MAY 1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  KOKULIS, PAUL N.
;      REGISTRATION NUMBER:  16773
;      REFERENCE/DOCKET NUMBER:  202390/R 7262 (V)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
;      TELEX:  6714627 CUSH
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  440 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-061-062A-8

  Query Match           56.1%;  Score 46;  DB 1;  Length 440;
  Best Local Similarity  50.0%;  Pred. No. 12;
  Matches    7;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDI 14
              |:: |||: || |:
Db        336 IRVVCSDTAPCTDL 349


RESULT 6
US-08-536-150-6
; Sequence 6, Application US/08536150
; Patent No. 6013489
;  GENERAL INFORMATION:
;    APPLICANT:  MUSTERS, WOUTER
;    APPLICANT:  STAM, HEIN
;    APPLICANT:  SUYKERBUYK, MARIA E.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VERBAKEL, Johannes M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF DNA
;    TITLE OF INVENTION:  ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
;    TITLE OF INVENTION:  RHAMNOGALACTURONASE ACTIVITY
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      STREET:  1100 NEW YORK AVENUE, N.W.
;      CITY:  WASHINGTON, D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/536,150
;      FILING DATE:  29-SEP-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/061,062
;      FILING DATE:  14 MAY 1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  KOKULIS, PAUL N.
;      REGISTRATION NUMBER:  16773
;      REFERENCE/DOCKET NUMBER:  202390/R 7262 (V)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
;      TELEX:  6714627 CUSH
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  440 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-536-150-6

  Query Match           56.1%;  Score 46;  DB 3;  Length 440;
  Best Local Similarity  50.0%;  Pred. No. 12;
  Matches    7;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;
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Qy          1 IQLKCSDSMPCKDI 14
              |:: |||: || |:
Db        336 IRVVCSDTAPCTDL 349


RESULT 7
US-08-536-150-8
; Sequence 8, Application US/08536150
; Patent No. 6013489
;  GENERAL INFORMATION:
;    APPLICANT:  MUSTERS, WOUTER
;    APPLICANT:  STAM, HEIN
;    APPLICANT:  SUYKERBUYK, MARIA E.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VERBAKEL, Johannes M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF DNA
;    TITLE OF INVENTION:  ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
;    TITLE OF INVENTION:  RHAMNOGALACTURONASE ACTIVITY
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      STREET:  1100 NEW YORK AVENUE, N.W.
;      CITY:  WASHINGTON, D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/536,150
;      FILING DATE:  29-SEP-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/061,062
;      FILING DATE:  14 MAY 1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  KOKULIS, PAUL N.
;      REGISTRATION NUMBER:  16773
;      REFERENCE/DOCKET NUMBER:  202390/R 7262 (V)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
;      TELEX:  6714627 CUSH
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  440 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-536-150-8

  Query Match             56.1%;  Score 46;  DB 3;  Length 440;
  Best Local Similarity   50.0%;  Pred. No. 12;
  Matches    7;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDI 14
              |:: |||: || |:
Db        336 IRVVCSDTAPCTDL 349


RESULT 8
US-08-109-391A-4
; Sequence 4, Application US/08109391A
; Patent No. 5639876
;  GENERAL INFORMATION:
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING NOVEL
;    TITLE OF INVENTION:  PARASITIC HELMINTH PROTEINS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/109,391A
;      FILING DATE:  19-AUG-1993
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-13
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303/863-9700
;      TELEFAX:  303/863-0223
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  208 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-109-391A-4

  Query Match             51.2%;  Score 42;  DB 1;  Length 208;
  Best Local Similarity   63.6%;  Pred. No. 23;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPCK 12
              | ||||  ||:
Db         22 QCKCSDIAPCQ 32


RESULT 9
US-08-459-019A-4
; Sequence 4, Application US/08459019A
; Patent No. 5686080
;  GENERAL INFORMATION:
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NOVEL PARASITIC HELMINTH P4 PROTEINS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross & McIntosh
;      STREET:  1700 Lincoln Street, #3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,019A
;      FILING DATE:  06-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  33,020
;      REFERENCE/DOCKET NUMBER:  2618-13-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (303) 863-9700
;      TELEFAX:  (303) 863-0223
```

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;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 208 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-019A-4

  Query Match             51.2%;  Score 42;  DB 1;  Length 208;
  Best Local Similarity   63.6%;  Pred. No. 23;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPCK 12
              | ||||  ||:
Db         22 QCKCSDIAPCQ 32


RESULT 10
US-08-460-428A-4
; Sequence 4, Application US/08460428A
; Patent No. 5912337
;  GENERAL INFORMATION:
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NOVEL PARASITIC HELMINTH
;    TITLE OF INVENTION:  P22U PROTEINS
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/460,428A
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-13-3
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303/863-9700
;      TELEFAX:  303/863-0223
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  208 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-460-428A-4

  Query Match             51.2%;  Score 42;  DB 2;  Length 208;
  Best Local Similarity   63.6%;  Pred. No. 23;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPCK 12
              | ||||  ||:
Db         22 QCKCSDIAPCQ 32


RESULT 11
US-08-458-860A-4
; Sequence 4, Application US/08458860A
; Patent No. 6100390
;  GENERAL INFORMATION:
;    APPLICANT:  Frank, Glenn R.
;    APPLICANT:  Tripp, Cynthia A.
;    APPLICANT:  Grieve, Robert B.
;    TITLE OF INVENTION:  NOVEL PARASITIC HELMINTH
;    TITLE OF INVENTION:  P22U NUCLEIC ACID MOLECULES
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sheridan Ross P.C.
;      STREET:  1700 Lincoln St., Suite 3500
;      CITY:  Denver
;      STATE:  CO
;      COUNTRY:  U.S.A.
;      ZIP:  80203
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/458,860A
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connell, Gary J.
;      REGISTRATION NUMBER:  32,020
;      REFERENCE/DOCKET NUMBER:  2618-13-2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  303/863-9700
;      TELEFAX:  303/863-0223
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  208 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-458-860A-4

  Query Match             51.2%;  Score 42;  DB 3;  Length 208;
  Best Local Similarity   63.6%;  Pred. No. 23;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPCK 12
              | ||||  ||:
Db         22 QCKCSDIAPCQ 32


RESULT 12
US-08-164-839-4
; Sequence 4, Application US/08164839
; Patent No. 5514573
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
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;      APPLICATION NUMBER:  US/08/164,839
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/004,729
;      FILING DATE:  14-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5514573man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  10-599-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)412-3000
;      TELEFAX:  (703)413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  694 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-164-839-4

  Query Match             51.2%;  Score 42;  DB 1;  Length 694;
  Best Local Similarity   66.7%;  Pred. No. 78;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCK 12
              | |:||||:| |
Db         41 ITLQCSDSLPPK 52


RESULT 13
US-08-583-799-4
; Sequence 4, Application US/08583799
; Patent No. 5607849
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/583,799
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/004,729
;      FILING DATE:  14-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5607849man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  10-599-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)412-3000
;      TELEFAX:  (703)413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  694 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-583-799-4

  Query Match             51.2%;  Score 42;  DB 1;  Length 694;
  Best Local Similarity   66.7%;  Pred. No. 78;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCK 12
              | |:||||:| |
Db         41 ITLQCSDSLPPK 52


RESULT 14
US-08-164-839-6
; Sequence 6, Application US/08164839
; Patent No. 5514573
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/164,839
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/004,729
;      FILING DATE:  14-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5514573man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  10-599-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)412-3000
;      TELEFAX:  (703)413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  695 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-164-839-6

  Query Match             51.2%;  Score 42;  DB 1;  Length 695;
  Best Local Similarity   66.7%;  Pred. No. 78;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCK 12
              | |:||||:| |
Db         42 ITLQCSDSLPPK 53
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RESULT 15
US-08-583-799-6
; Sequence 6, Application US/08583799
; Patent No. 5607849
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/583,799
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/004,729
;      FILING DATE:  14-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5607849man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  10-599-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)412-3000
;      TELEFAX:  (703)413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  695 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-583-799-6

  Query Match             51.2%;  Score 42;  DB 1;  Length 695;
  Best Local Similarity   66.7%;  Pred. No. 78;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCK 12
              | |:||||:| |
Db         42 ITLQCSDSLPPK 53


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GenCore version 5.1.6

OM protein - protein search, using sw model

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117.031 Million cell updates/sec

Title: US-09-308-027A-22
Perfect score: 73
Sequence: 1 CKDIKLSDISLKLTS 15

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Searched: 1124875 seqs, 275673149 residues

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	73	100.0	15	14	US-10-354-240-151	Sequence 151, App
2	73	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	51	69.9	15	14	US-10-354-240-150	Sequence 150, App
4	47.5	65.1	99	9	US-09-864-761-36470	Sequence 36470, A
5	47.5	65.1	26926	9	US-09-759-508B-2	Sequence 2, Appli
6	45	61.6	1928	15	US-10-369-493-22025	Sequence 22025, A
7	44	60.3	15	14	US-10-354-240-152	Sequence 152, App
8	41	56.2	151	12	US-10-424-599-285317	Sequence 285317,
9	40	54.8	167	13	US-10-051-902-18	Sequence 18, Appl
10	40	54.8	167	13	US-10-051-909-18	Sequence 18, Appl
11	40	54.8	307	12	US-09-855-294B-4	Sequence 4, Appli
12	40	54.8	407	12	US-10-425-114-49353	Sequence 49353, A
13	39.5	54.1	186	12	US-09-826-734-16	Sequence 16, Appl
14	39	53.4	130	9	US-09-815-242-12607	Sequence 12607, A
15	39	53.4	130	9	US-09-815-242-12750	Sequence 12750, A
16	39	53.4	623	15	US-10-369-493-22157	Sequence 22157, A
17	39	53.4	813	15	US-10-369-493-3604	Sequence 3604, Ap
18	38	52.1	75	12	US-10-282-122A-54510	Sequence 54510, A
19	38	52.1	335	12	US-10-424-599-143308	Sequence 143308,
20	38	52.1	421	10	US-09-948-820-50	Sequence 50, Appl
21	38	52.1	590	9	US-09-893-817-2	Sequence 2, Appli
22	38	52.1	642	9	US-09-893-817-24	Sequence 24, Appl
23	38	52.1	1298	12	US-10-282-122A-58265	Sequence 58265, A
24	37	50.7	19	14	US-10-225-567A-1563	Sequence 1563, Ap
25	37	50.7	123	12	US-10-424-599-154895	Sequence 154895,
26	37	50.7	157	12	US-10-424-599-214507	Sequence 214507,
27	37	50.7	183	14	US-10-106-698-5416	Sequence 5416, Ap
28	37	50.7	255	10	US-09-813-432-41	Sequence 41, Appl
29	37	50.7	255	12	US-10-246-583-41	Sequence 41, Appl
30	37	50.7	255	15	US-10-174-364-41	Sequence 41, Appl
31	37	50.7	272	12	US-10-425-114-41381	Sequence 41381, A
32	37	50.7	275	14	US-10-117-323-27	Sequence 27, Appl
33	37	50.7	278	10	US-09-813-432-12	Sequence 12, Appl
34	37	50.7	278	10	US-09-813-432-43	Sequence 43, Appl
35	37	50.7	278	12	US-10-246-583-12	Sequence 12, Appl
36	37	50.7	278	12	US-10-246-583-43	Sequence 43, Appl
37	37	50.7	278	15	US-10-174-364-12	Sequence 12, Appl
38	37	50.7	278	15	US-10-174-364-43	Sequence 43, Appl
39	37	50.7	318	12	US-10-225-094-6	Sequence 6, Appli
40	37	50.7	318	15	US-10-407-079-34	Sequence 34, Appl
41	37	50.7	322	14	US-10-225-567A-384	Sequence 384, App
42	37	50.7	441	12	US-10-225-094-4	Sequence 4, Appli
43	37	50.7	441	15	US-10-407-079-32	Sequence 32, Appl
44	37	50.7	494	12	US-10-225-094-2	Sequence 2, Appli
45	37	50.7	494	13	US-10-050-726-2	Sequence 2, Appli

ALIGNMENTS

```
RESULT 1
US-10-354-240-151
; Sequence 151, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 151
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 68
US-10-354-240-151

  Query Match           100.0%;  Score 73;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 6.3e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CKDIKLSDISLKLTS 15
              |||||||||||||||
Db          1 CKDIKLSDISLKLTS 15
```

```
RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 73;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 0.00033;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CKDIKLSDISLKLTS 15
              |||||||||||||||
Db        390 CKDIKLSDISLKLTS 404


RESULT 3
US-10-354-240-150
; Sequence 150, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 150
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 67
US-10-354-240-150

  Query Match             69.9%;  Score 51;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.041;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 CKDIKLSDIS 10
              ||||||||||
Db          6 CKDIKLSDIS 15


RESULT 4
US-09-864-761-36470
; Sequence 36470, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT:  Rank, David R.
;  APPLICANT:  Hanzel, David K.
;  APPLICANT:  Chen, Wensheng
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;  TITLE OF INVENTION:  GENE EXPRESSION ANALYSIS BY MICROARRAY
;  FILE REFERENCE: Aeomica-X-1
;  CURRENT APPLICATION NUMBER: US/09/864,761
;  CURRENT FILING DATE:  2001-05-23
;  PRIOR APPLICATION NUMBER: US 60/180,312
;  PRIOR FILING DATE: 2000-02-04
;  PRIOR APPLICATION NUMBER: US 60/207,456
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: US 09/632,366
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: GB 24263.6
;  PRIOR FILING DATE: 2000-10-04
;  PRIOR APPLICATION NUMBER: US 60/236,359
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: PCT/US01/00666
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00667
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00664
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00669
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00665
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00668
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00663
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00662
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00661
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: PCT/US01/00670
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: US 60/234,687
;  PRIOR FILING DATE: 2000-09-21
;  PRIOR APPLICATION NUMBER: US 09/608,408
;  PRIOR FILING DATE: 2000-06-30
;  PRIOR APPLICATION NUMBER: US 09/774,203
;  PRIOR FILING DATE: 2001-01-29
;  NUMBER OF SEQ ID NOS: 49117
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 36470
;   LENGTH: 99
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: MAP TO AC010680.3
;   OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.98
;   OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.92
;   OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL =   1
;   OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.96
;   OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.3
;   OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL =   1
;   OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.3
;   OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
;   OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.98
;   OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL =   1
;   OTHER INFORMATION: EST_HUMAN HIT: AA180780.1, EVALUE 4.00e-14
;   OTHER INFORMATION: SWISSPROT HIT: Q62234, EVALUE 7.00e-10
US-09-864-761-36470

  Query Match             65.1%;  Score 47.5;  DB 9;  Length 99;
  Best Local Similarity   70.6%;  Pred. No. 1.4;
  Matches   12;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    1;
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```
Qy          1 CKDIKLSDI---SLKLT 14
              ||||| |||    | |||
Db          5 CKDIKASDITKSSCKLT 21


RESULT 5
US-09-759-508B-2
; Sequence 2, Application US/09759508B
; Publication No. US20020182599A1
; GENERAL INFORMATION:
;  APPLICANT: Fishman, Mark C.
;  TITLE OF INVENTION: Methods for Diagnosing and Treating Heart Disease
;  FILE REFERENCE: 00786/381002
;  CURRENT APPLICATION NUMBER: US/09/759,508B
;  CURRENT FILING DATE:  2001-01-12
;  PRIOR APPLICATION NUMBER: US 60/175,787
;  PRIOR FILING DATE: 2000-01-12
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 26926
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-759-508B-2

  Query Match             65.1%;  Score 47.5;  DB 9;  Length 26926;
  Best Local Similarity   70.6%;  Pred. No. 7.1e+02;
  Matches   12;  Conservative    0;  Mismatches    2;  Indels    3;  Gaps    1;

Qy          1 CKDIKLSDI---SLKLT 14
              ||||| |||    | |||
Db       7986 CKDIKASDITKSSCKLT 8002


RESULT 6
US-10-369-493-22025
; Sequence 22025, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 22025
;   LENGTH: 1928
;   TYPE: PRT
;   ORGANISM: Saccharomyces cerevisiae
US-10-369-493-22025

  Query Match             61.6%;  Score 45;  DB 15;  Length 1928;
  Best Local Similarity   57.1%;  Pred. No. 1e+02;
  Matches    8;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 KDIKLSDISLKLTS 15
              ||:||::| :|||:
Db        790 KDVKLNNIMIKLTA 803


RESULT 7
US-10-354-240-152
; Sequence 152, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 152
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 69
US-10-354-240-152

  Query Match             60.3%;  Score 44;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.66;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 LSDISLKLTS 15
              ||||||||||
Db          1 LSDISLKLTS 10


RESULT 8
US-10-424-599-285317
; Sequence 285317, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 285317
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_99670C.1.pep
US-10-424-599-285317

  Query Match             56.2%;  Score 41;  DB 12;  Length 151;
  Best Local Similarity   60.0%;  Pred. No. 29;
  Matches    9;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 CKDIKLSDISLKLTS 15
              ||:|| |||| :|  :
Db        100 CKNIKDSDISPELAT 114


RESULT 9
US-10-051-902-18
; Sequence 18, Application US/10051902
; Publication No. US20020178468A1
; GENERAL INFORMATION:
;  APPLICANT: Allen, Steve
;  APPLICANT:  Hitz, Bill
;  APPLICANT:  Kinney, Tony
```

```
;  APPLICANT:  Tingey, Scott
;  TITLE OF INVENTION: Plant Sugar Transport Proteins
;  FILE REFERENCE: BB-1163
;  CURRENT APPLICATION NUMBER: US/10/051,902
;  CURRENT FILING DATE:  2002-01-17
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US/09/291,922
;  PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-14
;  NUMBER OF SEQ ID NOS: 30
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 18
;   LENGTH: 167
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: (34)
;   NAME/KEY: UNSURE
;   LOCATION: (85)
;   NAME/KEY: UNSURE
;   LOCATION: (98)
;   NAME/KEY: UNSURE
;   LOCATION: (112)
;   NAME/KEY: UNSURE
;   LOCATION: (151)
US-10-051-902-18

  Query Match             54.8%;  Score 40;  DB 13;  Length 167;
  Best Local Similarity   50.0%;  Pred. No. 48;
  Matches    6;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 KDIKLSDISLKL 13
              ||:|:||: |::
Db         60 KDLKISDVKLEI 71


RESULT 10
US-10-051-909-18
; Sequence 18, Application US/10051909
; Publication No. US20020199217A1
; GENERAL INFORMATION:
;  APPLICANT: Allen, Steve
;  APPLICANT:  Helentjaris, Tim
;  APPLICANT:  Hitz, Bill
;  APPLICANT:  Kinney, Tony
;  APPLICANT:  Tingey, Scott
;  TITLE OF INVENTION: Plant Sugar Transport Proteins
;  FILE REFERENCE: BB1163 US CIP
;  CURRENT APPLICATION NUMBER: US/10/051,909
;  CURRENT FILING DATE:  2002-01-17
;  PRIOR APPLICATION NUMBER: 60/083,044
;  PRIOR FILING DATE: April 24, 1998
;  NUMBER OF SEQ ID NOS: 38
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 18
;   LENGTH: 167
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   NAME/KEY: UNSURE
;   LOCATION: (34)
;   NAME/KEY: UNSURE
;   LOCATION: (85)
;   NAME/KEY: UNSURE
;   LOCATION: (98)
;   NAME/KEY: UNSURE
;   LOCATION: (112)
;   NAME/KEY: UNSURE
;   LOCATION: (151)
US-10-051-909-18

  Query Match             54.8%;  Score 40;  DB 13;  Length 167;
  Best Local Similarity   50.0%;  Pred. No. 48;
  Matches    6;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 KDIKLSDISLKL 13
              ||:|:||: |::
Db         60 KDLKISDVKLEI 71


RESULT 11
US-09-855-294B-4
; Sequence 4, Application US/09855294B
; Publication No. US20020086331A1
; GENERAL INFORMATION:
;  APPLICANT: Croce, Carlo
;  APPLICANT:  Brenner, Charles
;  APPLICANT:  Pekarski,Yuri
;  TITLE OF INVENTION: CRYSTAL STRUCTURE OF WORM NitFhit
;  TITLE OF INVENTION:  REVEALS THAT A Nit TETRAMER BINDS TWO Fhit DIMERS
;  FILE REFERENCE: CRO01.NP007
;  CURRENT APPLICATION NUMBER: US/09/855,294B
;  CURRENT FILING DATE:  2001-05-14
;  PRIOR APPLICATION NUMBER: 60/204,713
;  PRIOR FILING DATE: 2000-05-16
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 307
;   TYPE: PRT
;   ORGANISM: S. cerevisiae
US-09-855-294B-4

  Query Match             54.8%;  Score 40;  DB 12;  Length 307;
  Best Local Similarity   53.3%;  Pred. No. 95;
  Matches    8;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 CKDIKLSDISLKLTS 15
              | ||:  : ||||
Db        169 CYDIRFPEFSLKLRS 183


RESULT 12
US-10-425-114-49353
; Sequence 49353, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 49353
;   LENGTH: 407
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB4746-071-D5_FLI.pep
US-10-425-114-49353

  Query Match             54.8%;  Score 40;  DB 12;  Length 407;
  Best Local Similarity   50.0%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 KDIKLSDISLKL 13
              ||:|:||: |::
Db        115 KDLKISDVKLEI 126


RESULT 13
```

```
US-09-826-734-16
; Sequence 16, Application US/09826734
; Publication No. US20030017457A1
; GENERAL INFORMATION:
;  APPLICANT: Fernandes, Elma R.
;  APPLICANT:  Vernet, Corine A.M.
;  APPLICANT:  Mishra, Vishnu S.
;  APPLICANT:  Leach, Martin D.
;  APPLICANT:  Shimkets, Richard A.
;  APPLICANT:  Zerhusen, Bryan D.
;  APPLICANT:  Kekuda, Ramesha
;  TITLE OF INVENTION: Novel Polynucleotides and Polypeptides Encoded Thereby
;  FILE REFERENCE: 15966-754
;  CURRENT APPLICATION NUMBER: US/09/826,734
;  CURRENT FILING DATE:  2001-04-05
;  PRIOR APPLICATION NUMBER: 60/195,576
;  PRIOR FILING DATE: 2000-04-06
;  NUMBER OF SEQ ID NOS: 270
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 186
;   TYPE: PRT
;   ORGANISM: homo sapiens
US-09-826-734-16

  Query Match             54.1%;  Score 39.5;  DB 12;  Length 186;
  Best Local Similarity   45.0%;  Pred. No. 66;
  Matches    9;  Conservative    5;  Mismatches    1;  Indels    5;  Gaps    1;

Qy          1 CKDI-----KLSDISLKLTS 15
              |:|:     |:|| :|||:|
Db         49 CQDVVVKLRKISDWALKLSS 68


RESULT 14
US-09-815-242-12607
; Sequence 12607, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
;  APPLICANT: Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari L.
;  APPLICANT:  Zyskind, Judith W.
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John D.
;  APPLICANT:  Carr, Grant J.
;  APPLICANT:  Yamamoto, Robert T.
;  APPLICANT:  Xu, H. Howard
;  TITLE OF INVENTION: Identification of Essential Genes in
;  TITLE OF INVENTION:  Prokaryotes
;  FILE REFERENCE: ELITRA.011A
;  CURRENT APPLICATION NUMBER: US/09/815,242
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  NUMBER OF SEQ ID NOS: 14110
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12607
;   LENGTH: 130
;   TYPE: PRT
;   ORGANISM: Staphylococcus aureus
US-09-815-242-12607

  Query Match             53.4%;  Score 39;  DB 9;  Length 130;
  Best Local Similarity   63.6%;  Pred. No. 54;
  Matches    7;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 KLSDISLKLTS 15
              |:||:||||::
Db         16 KMSDVSLKLSA 26


RESULT 15
US-09-815-242-12750
; Sequence 12750, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
;  APPLICANT: Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari L.
;  APPLICANT:  Zyskind, Judith W.
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John D.
;  APPLICANT:  Carr, Grant J.
;  APPLICANT:  Yamamoto, Robert T.
;  APPLICANT:  Xu, H. Howard
;  TITLE OF INVENTION: Identification of Essential Genes in
;  TITLE OF INVENTION:  Prokaryotes
;  FILE REFERENCE: ELITRA.011A
;  CURRENT APPLICATION NUMBER: US/09/815,242
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  NUMBER OF SEQ ID NOS: 14110
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12750
;   LENGTH: 130
;   TYPE: PRT
;   ORGANISM: Staphylococcus aureus
US-09-815-242-12750

  Query Match             53.4%;  Score 39;  DB 9;  Length 130;
  Best Local Similarity   63.6%;  Pred. No. 54;
  Matches    7;  Conservative    4;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 KLSDISLKLTS 15
              |:||:||||::
Db         16 KMSDVSLKLSA 26


Search completed: April 19, 2004, 12:40:54
Job time : 35.3333 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-21
Perfect score: 82
Sequence: 1 IQLKCSDSMPCKDIK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
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12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
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15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	82	100.0	15	14	US-10-354-240-149	Sequence 149, App
2	82	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	55	67.1	15	14	US-10-354-240-150	Sequence 150, App
4	53	64.6	15	14	US-10-354-240-148	Sequence 148, App
5	53	64.6	272	12	US-10-425-114-41381	Sequence 41381, A
6	50	61.0	393	12	US-10-425-114-48708	Sequence 48708, A
7	50	61.0	539	12	US-10-424-599-176466	Sequence 176466,
8	47	57.3	192	12	US-10-424-599-184382	Sequence 184382,
9	46	56.1	309	12	US-10-072-012-196	Sequence 196, App
10	46	56.1	309	12	US-10-072-012-567	Sequence 567, App
11	46	56.1	309	12	US-10-072-012-568	Sequence 568, App
12	46	56.1	309	12	US-10-072-012-569	Sequence 569, App
13	46	56.1	309	12	US-10-072-012-570	Sequence 570, App
14	46	56.1	309	14	US-10-288-252-2	Sequence 2, Appli
15	46	56.1	314	12	US-10-425-114-43341	Sequence 43341, A
16	45	54.9	60	12	US-10-424-599-241893	Sequence 241893,
17	45	54.9	282	12	US-10-425-114-44437	Sequence 44437, A
18	45	54.9	320	12	US-10-424-599-204806	Sequence 204806,
19	44	53.7	319	12	US-10-425-114-69361	Sequence 69361, A
20	44	53.7	358	12	US-10-425-114-69575	Sequence 69575, A
21	44	53.7	496	12	US-10-425-114-66151	Sequence 66151, A
22	44	53.7	573	12	US-10-425-114-43413	Sequence 43413, A
23	43	52.4	84	12	US-10-424-599-198909	Sequence 198909,
24	43	52.4	122	12	US-10-424-599-248353	Sequence 248353,
25	43	52.4	186	12	US-10-425-114-47078	Sequence 47078, A
26	43	52.4	210	12	US-10-424-599-202250	Sequence 202250,
27	43	52.4	443	12	US-10-424-599-235443	Sequence 235443,
28	43	52.4	456	12	US-10-425-114-44707	Sequence 44707, A
29	43	52.4	914	15	US-10-028-248A-83	Sequence 83, Appl
30	43	52.4	914	15	US-10-107-782-83	Sequence 83, Appl
31	42	51.2	39	9	US-09-814-122-74	Sequence 74, Appl
32	42	51.2	39	12	US-10-649-857-74	Sequence 74, Appl
33	42	51.2	139	12	US-10-424-599-205708	Sequence 205708,
34	42	51.2	409	12	US-10-112-944-476	Sequence 476, App
35	40	48.8	98	12	US-10-424-599-284471	Sequence 284471,
36	40	48.8	101	12	US-10-425-114-40106	Sequence 40106, A
37	40	48.8	196	12	US-10-424-599-232966	Sequence 232966,
38	40	48.8	315	12	US-10-425-114-50982	Sequence 50982, A
39	40	48.8	425	12	US-10-424-599-232965	Sequence 232965,
40	39	47.6	149	12	US-10-425-114-72765	Sequence 72765, A
41	39	47.6	221	12	US-10-424-599-182809	Sequence 182809,
42	39	47.6	265	12	US-10-424-599-182810	Sequence 182810,
43	39	47.6	380	13	US-10-003-356-5	Sequence 5, Appli
44	39	47.6	383	12	US-10-424-599-235337	Sequence 235337,
45	39	47.6	384	14	US-10-309-851-38	Sequence 38, Appl

ALIGNMENTS

RESULT 1
US-10-354-240-149
; Sequence 149, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 149
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 66
US-10-354-240-149

Query Match 100.0%; Score 82; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IQLKCSDSMPCKDIK 15
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Db 1 IQLKCSDSMPCKDIK 15

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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 82;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 9e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDIK 15
              |||||||||||||||
Db        380 IQLKCSDSMPCKDIK 394


RESULT 3
US-10-354-240-150
; Sequence 150, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 150
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 67
US-10-354-240-150

  Query Match             67.1%;  Score 55;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.053;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 SDSMPCKDIK 15
              ||||||||||
Db          1 SDSMPCKDIK 10


RESULT 4
US-10-354-240-148
; Sequence 148, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 65
US-10-354-240-148

  Query Match             64.6%;  Score 53;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMP 10
              ||||||||||
Db          6 IQLKCSDSMP 15


RESULT 5
US-10-425-114-41381
; Sequence 41381, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 41381
;   LENGTH: 272
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3069-045-D8_FLI.pep
US-10-425-114-41381

  Query Match             64.6%;  Score 53;  DB 12;  Length 272;
  Best Local Similarity   46.7%;  Pred. No. 1.8;
  Matches    7;  Conservative    6;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDIK 15
              | : |||::||:|::
Db        213 ISIACSDAVPCRDLE 227


RESULT 6
US-10-425-114-48708
; Sequence 48708, Application US/10425114
```

; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 48708
; LENGTH: 393
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700725705_FLI.pep
US-10-425-114-48708

Query Match 61.0%; Score 50; DB 12; Length 393;
Best Local Similarity 50.0%; Pred. No. 7.9;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 IQLKCSDSMPCKDI 14
: |||:|| |:
Db 324 VHFACSDSLPCVDV 337

RESULT 7
US-10-424-599-176466
; Sequence 176466, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 176466
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(539)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_130367C.1.pep
US-10-424-599-176466

Query Match 61.0%; Score 50; DB 12; Length 539;
Best Local Similarity 50.0%; Pred. No. 11;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 IQLKCSDSMPCKDI 14
: |||:|| |:
Db 470 VHFACSDSLPCVDV 483

RESULT 8
US-10-424-599-184382
; Sequence 184382, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 184382
; LENGTH: 192
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(192)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_137512C.1.pep
US-10-424-599-184382

Query Match 57.3%; Score 47; DB 12; Length 192;
Best Local Similarity 42.9%; Pred. No. 12;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 IQLKCSDSMPCKDI 14
: |:|| ||:|:
Db 144 VDLRCSKQFPCQDV 157

RESULT 9
US-10-072-012-196
; Sequence 196, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406

; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 196
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-072-012-196

Query Match 56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QLKCSDSMPC 11
:|:| |||||
Db 4 ELQCPDSMPC 13

RESULT 10
US-10-072-012-567
; Sequence 567, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 567
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-072-012-567

Query Match 56.1%; Score 46; DB 12; Length 309;
Best Local Similarity 70.0%; Pred. No. 27;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2 QLKCSDSMPC 11
:|:| |||||
Db 4 ELQCPDSMPC 13

RESULT 11
US-10-072-012-568
; Sequence 568, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975

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;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/267,459
;  PRIOR FILING DATE: 2001-02-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1391
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 568
;    LENGTH: 309
;    TYPE: PRT
;    ORGANISM: Macaca fascicularis
US-10-072-012-568

  Query Match             56.1%;  Score 46;  DB 12;  Length 309;
  Best Local Similarity   70.0%;  Pred. No. 27;
  Matches    7;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPC 11
              :|:| |||||
Db          4 ELQCPDSMPC 13


RESULT 12
US-10-072-012-569
; Sequence 569, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
;  APPLICANT: Tchernev, Velizar
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Li, Li
;  APPLICANT:  Gangolli, Esha
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Anderson, David W.
;  APPLICANT:  Rastelli, Luca
;  APPLICANT:  Miller, Charles E.
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Taupier Jr, Raymond J.
;  APPLICANT:  Gusev, Vladimir Y.
;  APPLICANT:  Colman, Steven D.
;  APPLICANT:  Wolenc, Adam R.
;  APPLICANT:  Pena, Carol E. A
;  APPLICANT:  Furtak, Katarzyna
;  APPLICANT:  Grosse, William M.
;  APPLICANT:  Alsobrook II, John P.
;  APPLICANT:  Lepley, Denise M.
;  APPLICANT:  Rieger, Daniel K.
;  APPLICANT:  Burgess, Catherine E.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-258
;  CURRENT APPLICATION NUMBER: US/10/072,012
;  CURRENT FILING DATE:  2002-01-31
;  PRIOR APPLICATION NUMBER: 60/265,102
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: 60/265,514
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,412
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,395
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/266,406
;  PRIOR FILING DATE: 2001-02-02
;  PRIOR APPLICATION NUMBER: 60/266,767
;  PRIOR FILING DATE: 2001-02-05
;  PRIOR APPLICATION NUMBER: 60/267,057
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/266,975
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/267,459
;  PRIOR FILING DATE: 2001-02-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1391
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 569
;    LENGTH: 309
;    TYPE: PRT
;    ORGANISM: Macaca fascicularis
US-10-072-012-569

  Query Match             56.1%;  Score 46;  DB 12;  Length 309;
  Best Local Similarity   70.0%;  Pred. No. 27;
  Matches    7;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPC 11
              :|:| |||||
Db          4 ELQCPDSMPC 13


RESULT 13
US-10-072-012-570
; Sequence 570, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
;  APPLICANT: Tchernev, Velizar
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Li, Li
;  APPLICANT:  Gangolli, Esha
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Anderson, David W.
;  APPLICANT:  Rastelli, Luca
;  APPLICANT:  Miller, Charles E.
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Taupier Jr, Raymond J.
;  APPLICANT:  Gusev, Vladimir Y.
;  APPLICANT:  Colman, Steven D.
;  APPLICANT:  Wolenc, Adam R.
;  APPLICANT:  Pena, Carol E. A
;  APPLICANT:  Furtak, Katarzyna
;  APPLICANT:  Grosse, William M.
;  APPLICANT:  Alsobrook II, John P.
;  APPLICANT:  Lepley, Denise M.
;  APPLICANT:  Rieger, Daniel K.
;  APPLICANT:  Burgess, Catherine E.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-258
;  CURRENT APPLICATION NUMBER: US/10/072,012
;  CURRENT FILING DATE:  2002-01-31
;  PRIOR APPLICATION NUMBER: 60/265,102
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: 60/265,514
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,412
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,395
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/266,406
;  PRIOR FILING DATE: 2001-02-02
;  PRIOR APPLICATION NUMBER: 60/266,767
;  PRIOR FILING DATE: 2001-02-05
;  PRIOR APPLICATION NUMBER: 60/267,057
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/266,975
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/267,459
;  PRIOR FILING DATE: 2001-02-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1391
;  SOFTWARE: PatentIn Ver. 2.1
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; SEQ ID NO 570
;   LENGTH: 309
;   TYPE: PRT
;   ORGANISM: Macaca fascicularis
US-10-072-012-570

  Query Match             56.1%;  Score 46;  DB 12;  Length 309;
  Best Local Similarity   70.0%;  Pred. No. 27;
  Matches    7;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPC 11
              :|:| |||||
Db          4 ELQCPDSMPC 13


RESULT 14
US-10-288-252-2
; Sequence 2, Application US/10288252
; Publication No. US20030143686A1
; GENERAL INFORMATION:
;  APPLICANT: INCYTE GENOMICS, INC.
;  APPLICANT:  LAL, Preeti G.
;  APPLICANT:  TANG, Y. Tom
;  APPLICANT:  YUE, Henry
;  APPLICANT:  BURFORD, Neil
;  APPLICANT:  GANDHI, Ameena R.
;  APPLICANT:  WARREN, Bridget A.
;  APPLICANT:  YAO, Monique G.
;  APPLICANT:  TRIBOULEY, Catherine M.
;  APPLICANT:  BAUGHN, Mariah R.
;  APPLICANT:  LEE, Ernestine A.
;  APPLICANT:  HAFALIA, April J.A.
;  APPLICANT:  LU, Yan
;  APPLICANT:  GRIFFIN, Jennifer A.
;  APPLICANT:  SANJANWALA, Madhu S.
;  APPLICANT:  DING,Li
;  TITLE OF INVENTION: TRANSFERASES
;  FILE REFERENCE: PI-0241 USA
;  CURRENT APPLICATION NUMBER: US/10/288,252
;  CURRENT FILING DATE:  2002-11-04
;  PRIOR APPLICATION NUMBER: PCT US01/30424
;  PRIOR FILING DATE: 2001-09-28
;  PRIOR APPLICATION NUMBER: US 60/252,819
;  PRIOR FILING DATE: 2000-11-21
;  PRIOR APPLICATION NUMBER: US 60/249,639
;  PRIOR FILING DATE: 2000-11-16
;  PRIOR APPLICATION NUMBER: US 60/247,931
;  PRIOR FILING DATE: 2000-11-09
;  PRIOR APPLICATION NUMBER: US 60/246,001
;  PRIOR FILING DATE: 2000-11-03
;  PRIOR APPLICATION NUMBER: US 60/244,025
;  PRIOR FILING DATE: 2000-10-27
;  PRIOR APPLICATION NUMBER: US 60/238,481
;  PRIOR FILING DATE: 2000-10-06
;  PRIOR APPLICATION NUMBER: US 60/236,523
;  PRIOR FILING DATE: 2000-09-29
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: PERL Program
; SEQ ID NO 2
;   LENGTH: 309
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20030143686A1 2792817CD1
US-10-288-252-2

  Query Match             56.1%;  Score 46;  DB 14;  Length 309;
  Best Local Similarity   70.0%;  Pred. No. 27;
  Matches    7;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 QLKCSDSMPC 11
              :|:| |||||
Db          4 ELQCPDSMPC 13


RESULT 15
US-10-425-114-43341
; Sequence 43341, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 43341
;   LENGTH: 314
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3067-033-B6_FLI.pep
US-10-425-114-43341

  Query Match             56.1%;  Score 46;  DB 12;  Length 314;
  Best Local Similarity   50.0%;  Pred. No. 27;
  Matches    7;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 IQLKCSDSMPCKDI 14
              :   ||||:||  |
Db        244 VHFACSDSLPCSGI 257


Search completed: April 19, 2004, 11:29:30
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
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52.702 Million cell updates/sec

Title: US-09-308-027A-20
Perfect score: 74
Sequence: 1 ATAAAIQLKCSDSMP 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	74	100.0	127	3	US-08-467-023-189	Sequence 189, App
2	74	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	41	55.4	441	4	US-09-252-991A-18870	Sequence 18870, A
4	41	55.4	694	1	US-08-164-839-4	Sequence 4, Appli
5	41	55.4	694	1	US-08-583-799-4	Sequence 4, Appli
6	41	55.4	695	1	US-08-164-839-6	Sequence 6, Appli
7	41	55.4	695	1	US-08-583-799-6	Sequence 6, Appli
8	39	52.7	145	4	US-09-134-000C-3844	Sequence 3844, Ap
9	38	51.4	188	4	US-09-252-991A-24203	Sequence 24203, A
10	37.5	50.7	196	4	US-09-152-060-95	Sequence 95, Appl
11	37	50.0	753	4	US-09-328-352-5412	Sequence 5412, Ap
12	36	48.6	182	4	US-09-252-991A-20750	Sequence 20750, A
13	36	48.6	358	4	US-09-252-991A-20584	Sequence 20584, A
14	36	48.6	440	1	US-08-061-062A-6	Sequence 6, Appli
15	36	48.6	440	1	US-08-061-062A-8	Sequence 8, Appli
16	36	48.6	440	3	US-08-536-150-6	Sequence 6, Appli
17	36	48.6	440	3	US-08-536-150-8	Sequence 8, Appli
18	36	48.6	457	6	5447867-1	Patent No. 5447867
19	36	48.6	505	3	US-08-993-260-1	Sequence 1, Appli
20	36	48.6	1016	4	US-09-252-991A-18914	Sequence 18914, A
21	36	48.6	1886	4	US-08-938-105-3	Sequence 3, Appli
22	36	48.6	1939	4	US-09-310-187A-1	Sequence 1, Appli
23	35	47.3	273	1	US-08-118-270-63	Sequence 63, Appl
24	35	47.3	273	5	PCT-US93-08528-63	Sequence 63, Appl
25	35	47.3	376	3	US-09-200-965-2	Sequence 2, Appli
26	35	47.3	481	4	US-09-215-694-17	Sequence 17, Appl
27	35	47.3	502	4	US-09-252-991A-28736	Sequence 28736, A
28	35	47.3	788	2	US-08-918-914-4	Sequence 4, Appli
29	34.5	46.6	193	4	US-09-252-991A-18021	Sequence 18021, A
30	34	45.9	24	3	US-09-136-251-8	Sequence 8, Appli
31	34	45.9	24	4	US-09-634-496-8	Sequence 8, Appli
32	34	45.9	24	4	US-09-635-145A-8	Sequence 8, Appli
33	34	45.9	63	4	US-09-497-491-47	Sequence 47, Appl
34	34	45.9	143	4	US-09-252-991A-29309	Sequence 29309, A
35	34	45.9	167	4	US-09-252-991A-21860	Sequence 21860, A
36	34	45.9	209	4	US-09-252-991A-24725	Sequence 24725, A
37	34	45.9	363	4	US-09-549-848B-39	Sequence 39, Appl
38	34	45.9	480	4	US-08-987-367-2	Sequence 2, Appli
39	34	45.9	480	4	US-08-987-367-4	Sequence 4, Appli
40	34	45.9	575	4	US-09-786-240-14	Sequence 14, Appl
41	34	45.9	739	3	US-09-136-251-2	Sequence 2, Appli
42	34	45.9	739	4	US-09-634-496-2	Sequence 2, Appli
43	34	45.9	740	4	US-09-635-145A-2	Sequence 2, Appli
44	34	45.9	1040	4	US-09-328-352-7238	Sequence 7238, Ap
45	34	45.9	1118	4	US-09-252-991A-24340	Sequence 24340, A

ALIGNMENTS

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RESULT 1
US-08-467-023-189
; Sequence 189, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  189:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  127 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-189

Query Match 100.0%; Score 74; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 2.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ATAAAIQLKCSDSMP 15
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Db        105 ATAAAIQLKCSDSMP 119
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RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 74; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ATAAAIQLKCSDSMP 15
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Db        375 ATAAAIQLKCSDSMP 389
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RESULT 3
US-09-252-991A-18870
; Sequence 18870, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18870
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18870

Query Match 55.4%; Score 41; DB 4; Length 441;
Best Local Similarity 42.9%; Pred. No. 13;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

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Qy          2 TAAAIQLKCSDSMP 15
              ||  ::|:|:| :|
Db        295 TARPLRLRCADGLP 308
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RESULT 4
US-08-164-839-4
; Sequence 4, Application US/08164839
; Patent No. 5514573
; GENERAL INFORMATION:
; APPLICANT: YASUEDA, HISASHI
; APPLICANT: NAKANISHI, KAZUO
; APPLICANT: MOTOKI, MASAO
; APPLICANT: NAGASE, KAZUO
; APPLICANT: MATSUI, HIROSHI
; TITLE OF INVENTION: GENE ENCODING TRANSGLUTAMINASE DERIVED
; TITLE OF INVENTION: FROM FISH
; NUMBER OF SEQUENCES: 72
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/164,839
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/004,729
; FILING DATE: 14-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Oblon, No. 5514573man F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 10-599-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)412-3000
; TELEFAX: (703)413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 694 amino acids

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;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-164-839-4

  Query Match             55.4%;  Score 41;  DB 1;  Length 694;
  Best Local Similarity   63.6%;  Pred. No. 22;
  Matches    7;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          5 AIQLKCSDSMP 15
              :| |:||||:|
Db         40 SITLQCSDSLP 50


RESULT 5
US-08-583-799-4
; Sequence 4, Application US/08583799
; Patent No. 5607849
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/583,799
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/004,729
;      FILING DATE:  14-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5607849man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  10-599-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)412-3000
;      TELEFAX:  (703)413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  694 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-583-799-4

  Query Match             55.4%;  Score 41;  DB 1;  Length 694;
  Best Local Similarity   63.6%;  Pred. No. 22;
  Matches    7;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          5 AIQLKCSDSMP 15
              :| |:||||:|
Db         40 SITLQCSDSLP 50


RESULT 6
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; Sequence 6, Application US/08164839
; Patent No. 5514573
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/164,839
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/004,729
;      FILING DATE:  14-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5514573man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  10-599-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)412-3000
;      TELEFAX:  (703)413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  695 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-164-839-6

  Query Match             55.4%;  Score 41;  DB 1;  Length 695;
  Best Local Similarity   63.6%;  Pred. No. 22;
  Matches    7;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          5 AIQLKCSDSMP 15
              :| |:||||:|
Db         41 SITLQCSDSLP 51


RESULT 7
US-08-583-799-6
; Sequence 6, Application US/08583799
; Patent No. 5607849
;  GENERAL INFORMATION:
;    APPLICANT:  YASUEDA, HISASHI
;    APPLICANT:  NAKANISHI, KAZUO
;    APPLICANT:  MOTOKI, MASAO
;    APPLICANT:  NAGASE, KAZUO
;    APPLICANT:  MATSUI, HIROSHI
;    TITLE OF INVENTION:  GENE ENCODING TRANSGLUTAMINASE DERIVED
;    TITLE OF INVENTION:  FROM FISH
;    NUMBER OF SEQUENCES:  72
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
```

```
;       STREET:  1755 Jefferson Davis Highway, Fourth Floor
;       CITY:  Arlington
;       STATE:  Virginia
;       COUNTRY:  U.S.A.
;       ZIP:  22202
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/583,799
;       FILING DATE:
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/004,729
;       FILING DATE:  14-JAN-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Oblon, No. 5607849man F.
;       REGISTRATION NUMBER:  24,618
;       REFERENCE/DOCKET NUMBER:  10-599-0
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (703)412-3000
;       TELEFAX:  (703)413-2220
;       TELEX:  248855 OPAT UR
;   INFORMATION FOR SEQ ID NO:  6:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  695 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-583-799-6

  Query Match             55.4%;  Score 41;  DB 1;  Length 695;
  Best Local Similarity   63.6%;  Pred. No. 22;
  Matches    7;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          5 AIQLKCSDSMP 15
              :| |:||||:|
Db         41 SITLQCSDSLP 51


RESULT 8
US-09-134-000C-3844
; Sequence 3844, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3844
;   LENGTH: 145
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-3844

  Query Match             52.7%;  Score 39;  DB 4;  Length 145;
  Best Local Similarity   69.2%;  Pred. No. 8.8;
  Matches    9;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 TAAAIQLKCSDSM 14
              ||| |||.|||:
Db         79 TAALSQLKTSDSL 91


RESULT 9
US-09-252-991A-24203
; Sequence 24203, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 24203
;   LENGTH: 188
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24203

  Query Match             51.4%;  Score 38;  DB 4;  Length 188;
  Best Local Similarity   46.2%;  Pred. No. 18;
  Matches    6;  Conservative    5;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 AAAIQLKCSDSMP 15
              ||::: :|:|| |
Db         31 AASVRPRCADSYP 43


RESULT 10
US-09-152-060-95
; Sequence 95, Application US/09152060
; Patent No. 6448230
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: 28 Human Secreted Proteins
;  FILE REFERENCE: PZ003P1.US
;  CURRENT APPLICATION NUMBER: US/09/152,060
;  CURRENT FILING DATE: 1998-09-11
;  EARLIER APPLICATION NUMBER: PCT/US98/04858
;  EARLIER FILING DATE: 1998-03-12
;  EARLIER APPLICATION NUMBER: 60/040,762
;  EARLIER FILING DATE: 1997-03-14
;  EARLIER APPLICATION NUMBER: 60/040,710
;  EARLIER FILING DATE: 1997-03-14
;  EARLIER APPLICATION NUMBER: 60/050,934
;  EARLIER FILING DATE: 1997-05-30
;  EARLIER APPLICATION NUMBER: 60/048,100
;  EARLIER FILING DATE: 1997-05-30
;  EARLIER APPLICATION NUMBER: 60/048,357
;  EARLIER FILING DATE: 1997-05-30
;  EARLIER APPLICATION NUMBER: 60/048,189
;  EARLIER FILING DATE: 1997-05-30
;  EARLIER APPLICATION NUMBER: 60/057,765
;  EARLIER FILING DATE: 1997-09-05
;  EARLIER APPLICATION NUMBER: 60/048,970
;  EARLIER FILING DATE: 1997-06-06
;  EARLIER APPLICATION NUMBER: 60/068,368
;  EARLIER FILING DATE: 1997-12-19
;  NUMBER OF SEQ ID NOS: 118
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 95
;   LENGTH: 196
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (141)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-152-060-95

  Query Match             50.7%;  Score 37.5;  DB 4;  Length 196;
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  Best Local Similarity   64.3%;  Pred. No. 24;
  Matches    9;  Conservative    2;  Mismatches    2;  Indels    1;  Gaps    1;

Qy          3 AAAIQLKCSDS-MP 15
              || :||:|| | ||
Db        183 AAGLQLQCSHSKMP 196


RESULT 11
US-09-328-352-5412
; Sequence 5412, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5412
;   LENGTH: 753
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-5412

  Query Match             50.0%;  Score 37;  DB 4;  Length 753;
  Best Local Similarity   53.3%;  Pred. No. 1.4e+02;
  Matches    8;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 ATAAAIQLKCSDSMP 15
              | | |:|:|  | ||
Db        500 ARAEAVQIKEQDLMP 514


RESULT 12
US-09-252-991A-20750
; Sequence 20750, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 20750
;   LENGTH: 182
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20750

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  Best Local Similarity   75.0%;  Pred. No. 41;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          8 LKCSDSMP 15
              | ||||:|
Db        148 LSCSDSLP 155


RESULT 13
US-09-252-991A-20584
; Sequence 20584, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 20584
;   LENGTH: 358
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20584

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  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 AAAIQLKCSDSMP 15
              |::  |||| :||
Db        237 ASSSPLKCSAAMP 249


RESULT 14
US-08-061-062A-6
; Sequence 6, Application US/08061062A
; Patent No. 5550045
;  GENERAL INFORMATION:
;    APPLICANT:  MUSTERS, WOUTER
;    APPLICANT:  STAM, HEIN
;    APPLICANT:  SUYKERBUYK, MARIA E.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VERBAKEL, Johannes M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF DNA
;    TITLE OF INVENTION:  ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
;    TITLE OF INVENTION:  RHAMNOGALACTURONASE ACTIVITY
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      STREET:  1100 NEW YORK AVENUE, N.W.
;      CITY:  WASHINGTON, D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/061,062A
;      FILING DATE:  14 MAY 1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  KOKULIS, PAUL N.
;      REGISTRATION NUMBER:  16773
;      REFERENCE/DOCKET NUMBER:  202390/R 7262 (V)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
;      TELEX:  6714627 CUSH
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  440 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-061-062A-6

  Query Match             48.6%;  Score 36;  DB 1;  Length 440;
  Best Local Similarity   46.7%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;
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Qy          1 ATAAAIQLKCSDSMP 15
              ||   |:: ||| : |
Db        331 ATRPPIRVVCSDTAP 345


RESULT 15
US-08-061-062A-8
; Sequence 8, Application US/08061062A
; Patent No. 5550045
;  GENERAL INFORMATION:
;    APPLICANT:  MUSTERS, WOUTER
;    APPLICANT:  STAM, HEIN
;    APPLICANT:  SUYKERBUYK, MARIA E.
;    APPLICANT:  VISSER, JACOB
;    APPLICANT:  VERBAKEL, Johannes M.
;    TITLE OF INVENTION:  CLONING AND EXPRESSION OF DNA
;    TITLE OF INVENTION:  ENCODING A RIPENING FORM OF A POLYPEPTIDE HAVING
;    TITLE OF INVENTION:  RHAMNOGALACTURONASE ACTIVITY
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  CUSHMAN DARBY & CUSHMAN
;      STREET:  1100 NEW YORK AVENUE, N.W.
;      CITY:  WASHINGTON, D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3918
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/061,062A
;      FILING DATE:  14 MAY 1993
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  KOKULIS, PAUL N.
;      REGISTRATION NUMBER:  16773
;      REFERENCE/DOCKET NUMBER:  202390/R 7262 (V)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 861-3000
;      TELEFAX:  (202) 822-0944
;      TELEX:  6714627 CUSH
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  440 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-061-062A-8

  Query Match             48.6%;  Score 36;  DB 1;  Length 440;
  Best Local Similarity   46.7%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
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Title: US-09-308-027A-20
Perfect score: 74
Sequence: 1 ATAAAIQLKCSDSMP 15

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Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	74	100.0	15	14	US-10-354-240-148	Sequence 148, App
2	74	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	53	71.6	15	14	US-10-354-240-149	Sequence 149, App
4	48	64.9	15	14	US-10-354-240-147	Sequence 147, App
5	44	59.5	272	12	US-10-425-114-41381	Sequence 41381, A
6	44	59.5	566	15	US-10-369-493-3585	Sequence 3585, Ap
7	43	58.1	210	12	US-10-424-599-202250	Sequence 202250,
8	43	58.1	282	12	US-10-425-114-44437	Sequence 44437, A
9	43	58.1	320	12	US-10-424-599-204806	Sequence 204806,
10	41	55.4	223	9	US-09-925-301-1280	Sequence 1280, Ap
11	41	55.4	626	15	US-10-369-493-12917	Sequence 12917, A
12	40	54.1	309	12	US-10-072-012-196	Sequence 196, App
13	40	54.1	309	12	US-10-072-012-567	Sequence 567, App
14	40	54.1	309	12	US-10-072-012-568	Sequence 568, App
15	40	54.1	309	12	US-10-072-012-569	Sequence 569, App
16	40	54.1	309	12	US-10-072-012-570	Sequence 570, App
17	40	54.1	309	14	US-10-288-252-2	Sequence 2, Appli
18	40	54.1	485	15	US-10-369-493-17279	Sequence 17279, A
19	39	52.7	285	12	US-10-282-122A-42579	Sequence 42579, A
20	38	51.4	207	9	US-09-738-626-6432	Sequence 6432, Ap
21	38	51.4	248	12	US-10-425-114-56861	Sequence 56861, A
22	38	51.4	319	12	US-10-425-114-69361	Sequence 69361, A
23	37.5	50.7	196	9	US-09-853-161-95	Sequence 95, Appl
24	37.5	50.7	196	9	US-09-852-659A-95	Sequence 95, Appl
25	37.5	50.7	196	9	US-09-852-797-95	Sequence 95, Appl
26	37.5	50.7	196	12	US-10-058-993-95	Sequence 95, Appl
27	37.5	50.7	320	15	US-10-369-493-22984	Sequence 22984, A
28	37	50.0	96	14	US-10-029-386-29187	Sequence 29187, A
29	37	50.0	110	12	US-10-424-599-226366	Sequence 226366,
30	37	50.0	150	14	US-10-017-161-1474	Sequence 1474, Ap
31	37	50.0	162	9	US-09-747-155-335	Sequence 335, App
32	37	50.0	315	12	US-10-425-114-50982	Sequence 50982, A
33	37	50.0	320	12	US-10-092-900A-188	Sequence 188, App
34	37	50.0	320	15	US-10-292-798-1184	Sequence 1184, Ap
35	37	50.0	324	10	US-09-864-029-10	Sequence 10, Appl
36	37	50.0	345	9	US-09-886-055-293	Sequence 293, App
37	37	50.0	345	10	US-09-864-029-8	Sequence 8, Appli
38	37	50.0	345	10	US-09-804-291-293	Sequence 293, App
39	37	50.0	345	12	US-10-343-650A-642	Sequence 642, App
40	37	50.0	345	15	US-10-387-629-106	Sequence 106, App
41	37	50.0	393	12	US-10-425-114-48708	Sequence 48708, A
42	37	50.0	493	12	US-10-282-122A-67622	Sequence 67622, A
43	37	50.0	539	12	US-10-424-599-176466	Sequence 176466,
44	37	50.0	541	14	US-10-128-714-3389	Sequence 3389, Ap
45	37	50.0	564	14	US-10-128-714-8389	Sequence 8389, Ap

ALIGNMENTS

RESULT 1
US-10-354-240-148
; Sequence 148, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 148
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 65
US-10-354-240-148

Query Match 100.0%; Score 74; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATAAAIQLKCSDSMP 15
||||||||||||||||
Db 1 ATAAAIQLKCSDSMP 15

```
RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 74;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 9.9e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATAAAIQLKCSDSMP 15
              |||||||||||||||
Db        375 ATAAAIQLKCSDSMP 389


RESULT 3
US-10-354-240-149
; Sequence 149, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 149
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 66
US-10-354-240-149

  Query Match             71.6%;  Score 53;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.015;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 IQLKCSDSMP 15
              ||||||||||
Db          1 IQLKCSDSMP 10


RESULT 4
US-10-354-240-147
; Sequence 147, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 147
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 64
US-10-354-240-147

  Query Match             64.9%;  Score 48;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ATAAAIQLKC 10
              ||||||||||
Db          6 ATAAAIQLKC 15


RESULT 5
US-10-425-114-41381
; Sequence 41381, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 41381
;   LENGTH: 272
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3069-045-D8_FLI.pep
US-10-425-114-41381

  Query Match             59.5%;  Score 44;  DB 12;  Length 272;
  Best Local Similarity   53.3%;  Pred. No. 11;
  Matches    8;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 ATAAAIQLKCSDSMP 15
              ||  || : |||::|
Db        208 ATPQAISIACSDAVP 222


RESULT 6
US-10-369-493-3585
; Sequence 3585, Application US/10369493
```

; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3585
; LENGTH: 566
; TYPE: PRT
; ORGANISM: Neurospora crassa
US-10-369-493-3585

Query Match 59.5%; Score 44; DB 15; Length 566;
Best Local Similarity 53.3%; Pred. No. 24;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ATAAAIQLKCSDSMP 15
|| | :| ||| :|
Db 337 ATGATVQSTCSDILP 351

RESULT 7
US-10-424-599-202250
; Sequence 202250, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 202250
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(210)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_24657C.1.pep
US-10-424-599-202250

Query Match 58.1%; Score 43; DB 12; Length 210;
Best Local Similarity 53.3%; Pred. No. 13;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ATAAAIQLKCSDSMP 15
|| ||: |||: |
Db 134 ATEEAIKFSCSDAFP 148

RESULT 8
US-10-425-114-44437
; Sequence 44437, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44437
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700992481_FLI.pep
US-10-425-114-44437

Query Match 58.1%; Score 43; DB 12; Length 282;
Best Local Similarity 57.1%; Pred. No. 18;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 TAAAIQLKCSDSMP 15
:| ||: ||||:|
Db 205 SAKAIKFDCSDSVP 218

RESULT 9
US-10-424-599-204806
; Sequence 204806, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 204806
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_26969C.1.pep
US-10-424-599-204806

Query Match 58.1%; Score 43; DB 12; Length 320;
Best Local Similarity 57.1%; Pred. No. 20;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 TAAAIQLKCSDSMP 15
:| ||: ||||:|
Db 243 SAKAIKFDCSDSVP 256

RESULT 10
US-09-925-301-1280
; Sequence 1280, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12

; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1280
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (216)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (217)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1280

Query Match 55.4%; Score 41; DB 9; Length 223;
Best Local Similarity 61.5%; Pred. No. 32;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 3 AAAIQLKCSDSMP 15
||| ||| |:|
Db 87 AAATSAKCSSSLP 99

RESULT 11
US-10-369-493-12917
; Sequence 12917, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 12917
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(626)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-12917

Query Match 55.4%; Score 41; DB 15; Length 626;
Best Local Similarity 66.7%; Pred. No. 91;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ATAAAIQLKCSD 12
|| ||:| |||
Db 376 ATGAAVQSTCSD 387

RESULT 12
US-10-072-012-196
; Sequence 196, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca
; APPLICANT: Miller, Charles E.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Taupier Jr, Raymond J.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Colman, Steven D.
; APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 196
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-072-012-196

Query Match 54.1%; Score 40; DB 12; Length 309;
Best Local Similarity 63.6%; Pred. No. 66;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 5 AIQLKCSDSMP 15
| :|:| ||||
Db 2 ATELQCPDSMP 12

RESULT 13
US-10-072-012-567
; Sequence 567, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Shimkets, Richard
; APPLICANT: Li, Li
; APPLICANT: Gangolli, Esha
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Anderson, David W.
; APPLICANT: Rastelli, Luca

```
;  APPLICANT:  Miller, Charles E.
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Taupier Jr, Raymond J.
;  APPLICANT:  Gusev, Vladimir Y.
;  APPLICANT:  Colman, Steven D.
;  APPLICANT:  Wolenc, Adam R.
;  APPLICANT:  Pena, Carol E. A
;  APPLICANT:  Furtak, Katarzyna
;  APPLICANT:  Grosse, William M.
;  APPLICANT:  Alsobrook II, John P.
;  APPLICANT:  Lepley, Denise M.
;  APPLICANT:  Rieger, Daniel K.
;  APPLICANT:  Burgess, Catherine E.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-258
;  CURRENT APPLICATION NUMBER: US/10/072,012
;  CURRENT FILING DATE:  2002-01-31
;  PRIOR APPLICATION NUMBER: 60/265,102
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: 60/265,514
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,412
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,395
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/266,406
;  PRIOR FILING DATE: 2001-02-02
;  PRIOR APPLICATION NUMBER: 60/266,767
;  PRIOR FILING DATE: 2001-02-05
;  PRIOR APPLICATION NUMBER: 60/267,057
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/266,975
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/267,459
;  PRIOR FILING DATE: 2001-02-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1391
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 567
;   LENGTH: 309
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-072-012-567

  Query Match             54.1%;  Score 40;  DB 12;  Length 309;
  Best Local Similarity   63.6%;  Pred. No. 66;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          5 AIQLKCSDSMP 15
              | :|:| ||||
Db          2 ATELQCPDSMP 12


RESULT 14
US-10-072-012-568
; Sequence 568, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
;  APPLICANT: Tchernev, Velizar
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Li, Li
;  APPLICANT:  Gangolli, Esha
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Anderson, David W.
;  APPLICANT:  Rastelli, Luca
;  APPLICANT:  Miller, Charles E.
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Taupier Jr, Raymond J.
;  APPLICANT:  Gusev, Vladimir Y.
;  APPLICANT:  Colman, Steven D.
;  APPLICANT:  Wolenc, Adam R.
;  APPLICANT:  Pena, Carol E. A
;  APPLICANT:  Furtak, Katarzyna
;  APPLICANT:  Grosse, William M.
;  APPLICANT:  Alsobrook II, John P.
;  APPLICANT:  Lepley, Denise M.
;  APPLICANT:  Rieger, Daniel K.
;  APPLICANT:  Burgess, Catherine E.
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-258
;  CURRENT APPLICATION NUMBER: US/10/072,012
;  CURRENT FILING DATE:  2002-01-31
;  PRIOR APPLICATION NUMBER: 60/265,102
;  PRIOR FILING DATE: 2001-01-30
;  PRIOR APPLICATION NUMBER: 60/265,514
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,517
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,412
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/265,395
;  PRIOR FILING DATE: 2001-01-31
;  PRIOR APPLICATION NUMBER: 60/266,406
;  PRIOR FILING DATE: 2001-02-02
;  PRIOR APPLICATION NUMBER: 60/266,767
;  PRIOR FILING DATE: 2001-02-05
;  PRIOR APPLICATION NUMBER: 60/267,057
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/266,975
;  PRIOR FILING DATE: 2001-02-07
;  PRIOR APPLICATION NUMBER: 60/267,459
;  PRIOR FILING DATE: 2001-02-08
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 1391
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 568
;   LENGTH: 309
;   TYPE: PRT
;   ORGANISM: Macaca fascicularis
US-10-072-012-568

  Query Match             54.1%;  Score 40;  DB 12;  Length 309;
  Best Local Similarity   63.6%;  Pred. No. 66;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          5 AIQLKCSDSMP 15
              | :|:| ||||
Db          2 ATELQCPDSMP 12


RESULT 15
US-10-072-012-569
; Sequence 569, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
;  APPLICANT: Tchernev, Velizar
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Li, Li
;  APPLICANT:  Gangolli, Esha
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Anderson, David W.
;  APPLICANT:  Rastelli, Luca
;  APPLICANT:  Miller, Charles E.
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Taupier Jr, Raymond J.
;  APPLICANT:  Gusev, Vladimir Y.
;  APPLICANT:  Colman, Steven D.
;  APPLICANT:  Wolenc, Adam R.
```

; APPLICANT: Pena, Carol E. A
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Grosse, William M.
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-258
; CURRENT APPLICATION NUMBER: US/10/072,012
; CURRENT FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: 60/265,102
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/265,514
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,517
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,412
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/265,395
; PRIOR FILING DATE: 2001-01-31
; PRIOR APPLICATION NUMBER: 60/266,406
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/266,767
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 60/267,057
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/266,975
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: 60/267,459
; PRIOR FILING DATE: 2001-02-08
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1391
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 569
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-10-072-012-569

Query Match 54.1%; Score 40; DB 12; Length 309;
Best Local Similarity 63.6%; Pred. No. 66;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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Qy          5 AIQLKCSDSMP 15
              | :|:| ||||
Db          2 ATELQCPDSMP 12
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Search completed: April 19, 2004, 11:29:30
Job time : 68.3163 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-19
Perfect score: 76
Sequence: 1 SRAEVSYVHVNGAKF 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	76	100.0	127	3	US-08-467-023-189	Sequence 189, App
2	76	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	41	53.9	159	4	US-09-198-452A-462	Sequence 462, App
4	39	51.3	423	4	US-09-543-681A-6728	Sequence 6728, Ap
5	38	50.0	411	4	US-09-134-001C-3121	Sequence 3121, Ap
6	38	50.0	665	4	US-09-328-352-6983	Sequence 6983, Ap
7	37	48.7	153	4	US-09-540-236-3643	Sequence 3643, Ap
8	37	48.7	231	4	US-09-252-991A-22663	Sequence 22663, A
9	37	48.7	400	2	US-08-624-601-8	Sequence 8, Appli
10	36	47.4	132	4	US-09-134-001C-3602	Sequence 3602, Ap
11	36	47.4	150	3	US-08-676-444-46	Sequence 46, Appl
12	36	47.4	182	4	US-09-543-681A-5698	Sequence 5698, Ap
13	36	47.4	244	4	US-09-252-991A-22858	Sequence 22858, A
14	36	47.4	363	1	US-08-488-961-4	Sequence 4, Appli
15	36	47.4	363	3	US-08-973-297-4	Sequence 4, Appli
16	36	47.4	363	4	US-09-632-957-4	Sequence 4, Appli
17	36	47.4	363	5	PCT-US96-06511-4	Sequence 4, Appli
18	36	47.4	474	4	US-09-489-039A-13140	Sequence 13140, A
19	36	47.4	485	4	US-09-489-039A-8544	Sequence 8544, Ap
20	36	47.4	493	4	US-09-543-681A-5068	Sequence 5068, Ap
21	36	47.4	592	2	US-08-599-171A-30	Sequence 30, Appl
22	36	47.4	592	2	US-08-646-590B-30	Sequence 30, Appl
23	36	47.4	592	3	US-09-069-226-30	Sequence 30, Appl
24	36	47.4	592	3	US-09-412-184-30	Sequence 30, Appl
25	36	47.4	613	4	US-09-328-352-5066	Sequence 5066, Ap
26	36	47.4	615	3	US-08-676-444-44	Sequence 44, Appl
27	36	47.4	697	4	US-09-486-072-3	Sequence 3, Appli
28	35.5	46.7	290	4	US-09-134-001C-4339	Sequence 4339, Ap
29	35	46.1	258	4	US-09-489-039A-10872	Sequence 10872, A
30	35	46.1	309	2	US-08-849-480A-6	Sequence 6, Appli
31	35	46.1	336	4	US-09-878-766A-20	Sequence 20, Appl
32	35	46.1	341	4	US-09-632-947B-9	Sequence 9, Appli
33	35	46.1	394	4	US-09-543-681A-7069	Sequence 7069, Ap
34	35	46.1	403	4	US-08-485-393-4	Sequence 4, Appli
35	35	46.1	493	3	US-08-378-313-19	Sequence 19, Appl
36	35	46.1	599	4	US-09-540-236-3330	Sequence 3330, Ap
37	35	46.1	671	4	US-09-252-991A-19016	Sequence 19016, A
38	35	46.1	743	4	US-09-808-701A-27	Sequence 27, Appl
39	35	46.1	832	4	US-09-540-236-3056	Sequence 3056, Ap
40	35	46.1	1382	2	US-08-737-715-2	Sequence 2, Appli
41	35	46.1	1382	4	US-09-457-040B-7	Sequence 7, Appli
42	34	44.7	305	4	US-09-252-991A-24926	Sequence 24926, A
43	34	44.7	380	3	US-09-097-889-25	Sequence 25, Appl
44	34	44.7	380	4	US-09-098-079-25	Sequence 25, Appl
45	34	44.7	415	4	US-09-543-681A-4832	Sequence 4832, Ap

ALIGNMENTS

RESULT 1
US-08-467-023-189
; Sequence 189, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-189

  Query Match             100.0%;  Score 76;  DB 3;  Length 127;
  Best Local Similarity   100.0%;  Pred. No. 2.1e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHVNGAKF 15
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Db         20 SRAEVSYVHVNGAKF 34


RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  134:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  514 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-134

  Query Match             100.0%;  Score 76;  DB 3;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 1e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHVNGAKF 15
              |||||||||||||||
Db        290 SRAEVSYVHVNGAKF 304


RESULT 3
US-09-198-452A-462
; Sequence 462, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragment
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, prev
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 462
;   LENGTH: 159
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: 1...159
;   OTHER INFORMATION: Xaa=unknown or other
US-09-198-452A-462

  Query Match             53.9%;  Score 41;  DB 4;  Length 159;
  Best Local Similarity   61.5%;  Pred. No. 6;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 AEVSYVHVNGAKF 15
              |:| |: || |||
Db         51 AQVQYLKVNDAKF 63


RESULT 4
US-09-543-681A-6728
; Sequence 6728, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABI
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 6728
;   LENGTH: 423
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-6728

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  Best Local Similarity   45.5%;  Pred. No. 43;
  Matches    5;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          5 VSYVHVNGAKF 15
              :|: |:|| |:
Db        127 ISFSHINGVKY 137


RESULT 5
US-09-134-001C-3121
; Sequence 3121, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
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;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3121
;   LENGTH: 411
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3121

  Query Match             50.0%;  Score 38;  DB 4;  Length 411;
  Best Local Similarity   75.0%;  Pred. No. 63;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          8 VHVNGAKF 15
              ||:|| ||
Db         52 VHINGGKF 59


RESULT 6
US-09-328-352-6983
; Sequence 6983, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6983
;   LENGTH: 665
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-6983

  Query Match             50.0%;  Score 38;  DB 4;  Length 665;
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  Matches    6;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHVNG 12
              ::|:: ||:|||
Db        272 AQADLQYVYVNG 283


RESULT 7
US-09-540-236-3643
; Sequence 3643, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
;  TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.2005-001
;  CURRENT APPLICATION NUMBER: US/09/540,236
;  CURRENT FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 3643
;   LENGTH: 153
;   TYPE: PRT
;   ORGANISM: M.catarrhalis
US-09-540-236-3643

  Query Match             48.7%;  Score 37;  DB 4;  Length 153;
  Best Local Similarity   63.6%;  Pred. No. 31;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          4 EVSYVHVNGAK 14
              |   ||:||||
Db         52 EAGKVHMNGAK 62


RESULT 8
US-09-252-991A-22663
; Sequence 22663, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 22663
;   LENGTH: 231
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22663

  Query Match             48.7%;  Score 37;  DB 4;  Length 231;
  Best Local Similarity   70.0%;  Pred. No. 49;
  Matches    7;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHV 10
              |||:|||::
Db         13 SRADVSYVYL 22


RESULT 9
US-08-624-601-8
; Sequence 8, Application US/08624601
; Patent No. 5882653
;  GENERAL INFORMATION:
;    APPLICANT:  Kaper Dr., James B.
;    APPLICANT:  Levine Dr., Myron M.
;    TITLE OF INVENTION:  Vibrio cholerae O1 (CVD111) and non-O1
;    TITLE OF INVENTION:  (CVD112 and CVD112RM) serogroup vaccine strains, methods
;    TITLE OF INVENTION:  of making same and products thereof
;    NUMBER OF SEQUENCES:  16
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Spencer & Frank
;      STREET:  1100 New York Ave. N.W. Suite 300 East
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/624,601
;      FILING DATE:  08-APR-1996
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Schneller Dr., John W.
;      REGISTRATION NUMBER:  26,031
;      REFERENCE/DOCKET NUMBER:  BAMCZ0019P2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)414-4000
;      TELEFAX:  (202)414-4040
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  400 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    HYPOTHETICAL:  NO
;    ANTI-SENSE:  NO
;    ORIGINAL SOURCE:
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;      ORGANISM:  Vibrio cholerae
;      STRAIN:  El Tor 7946
;    IMMEDIATE SOURCE:
;      CLONE:  zot
US-08-624-601-8

  Query Match             48.7%;  Score 37;  DB 2;  Length 400;
  Best Local Similarity   47.4%;  Pred. No. 93;
  Matches    9;  Conservative    1;  Mismatches    3;  Indels    6;  Gaps    1;

Qy          3 AEVSYVHVN------GAKF 15
              ||: | | |      ||||
Db        153 AEIGYRHFNRATVGLGAKF 171


RESULT 10
US-09-134-001C-3602
; Sequence 3602, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3602
;   LENGTH: 132
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3602

  Query Match             47.4%;  Score 36;  DB 4;  Length 132;
  Best Local Similarity   38.5%;  Pred. No. 39;
  Matches    5;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAK 14
              : :  | |:|||:
Db         57 KVDYDYGHINGAR 69


RESULT 11
US-08-676-444-46
; Sequence 46, Application US/08676444A
; Patent No. 6294325
; GENERAL INFORMATION:
;  APPLICANT:  Wetmur, James G.
;  TITLE OF INVENTION:  CLONING AND  EXPRESSION OF THERMOSTABLE
;  TITLE OF INVENTION:  MUTL GENES AND PROTEINS AND USES THEREFOR
;  FILE REFERENCE:  MSM95-02
;  CURRENT APPLICATION NUMBER: US/08/676,444A
;  CURRENT FILING DATE:  1996-07-05
;  NUMBER OF SEQ ID NOS:  48
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 46
;   LENGTH: 150
;   TYPE: PRT
;   ORGANISM: Escherichia coli
US-08-676-444-46

  Query Match             47.4%;  Score 36;  DB 3;  Length 150;
  Best Local Similarity   60.0%;  Pred. No. 46;
  Matches    6;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 AEVSYVHVNG 12
              ||: | :|||
Db        102 AEIQYCYVNG 111


RESULT 12
US-09-543-681A-5698
; Sequence 5698, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABI
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5698
;   LENGTH: 182
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-5698

  Query Match             47.4%;  Score 36;  DB 4;  Length 182;
  Best Local Similarity   62.5%;  Pred. No. 57;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 VHVNGAKF 15
              |:|:|:|:
Db         31 VHINGSKY 38


RESULT 13
US-09-252-991A-22858
; Sequence 22858, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 22858
;   LENGTH: 244
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22858

  Query Match             47.4%;  Score 36;  DB 4;  Length 244;
  Best Local Similarity   53.3%;  Pred. No. 80;
  Matches    8;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHVNGAKF 15
              |||:|    |:||:|
Db         69 SRAQVVDAQVDGAEF 83


RESULT 14
US-08-488-961-4
; Sequence 4, Application US/08488961
; Patent No. 5606042
;  GENERAL INFORMATION:
;    APPLICANT:  Smith, Daniel S.
;    APPLICANT:  Walker, John C.
;    TITLE OF INVENTION:  Glycine and Phaseolus
;    TITLE OF INVENTION:  alpha-D-Galactosidases
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Reising, Ethington, Barnard & Perry
```

```
;       STREET:  P.O. Box 4390
;       CITY:  Troy
;       STATE:  Michigan
;       COUNTRY:  US
;       ZIP:  48099-4390
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/488,961
;       FILING DATE:
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kohn, Kenneth I.
;       REGISTRATION NUMBER:  30,955
;       REFERENCE/DOCKET NUMBER:  P-320 (UMo)
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (810) 689-3500
;       TELEFAX:  (810) 689-4071
;   INFORMATION FOR SEQ ID NO:  4:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  363 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
US-08-488-961-4

  Query Match             47.4%;  Score 36;  DB 1;  Length 363;
  Best Local Similarity   53.8%;  Pred. No. 1.3e+02;
  Matches    7;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAK 14
              :|   ||| || |
Db         77 KALADYVHKNGLK 89


RESULT 15
US-08-973-297-4
; Sequence 4, Application US/08973297
; Patent No. 6184017
;  GENERAL INFORMATION:
;    APPLICANT:  Smith, Daniel S.
;    APPLICANT:  Walker, John C.
;    TITLE OF INVENTION:  Glycine and Phaseolus
;    TITLE OF INVENTION:  alpha-D-Galactosidases
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Kohn & Associates
;      STREET:  30500 No. 6184017thwestern Hwy., Suite 410
;      CITY:  Farmington Hills
;      STATE:  Michigan
;      COUNTRY:  US
;      ZIP:  48334
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/973,297
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Kohn, Kenneth I.
;      REGISTRATION NUMBER:  30,955
;      REFERENCE/DOCKET NUMBER:  0994.00050
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (810) 539-5050
;      TELEFAX:  (810) 539-5055
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  363 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
US-08-973-297-4

  Query Match             47.4%;  Score 36;  DB 3;  Length 363;
  Best Local Similarity   53.8%;  Pred. No. 1.3e+02;
  Matches    7;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAK 14
              :|   ||| || |
Db         77 KALADYVHKNGLK 89


Search completed: April 19, 2004, 12:38:23
Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-19
Perfect score: 76
Sequence: 1 SRAEVSYVHVNGAKF 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
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6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
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9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	76	100.0	15	14	US-10-354-240-131	Sequence 131, App
2	76	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	72	94.7	134	14	US-10-354-240-3	Sequence 3, Appli
4	54	71.1	15	14	US-10-354-240-132	Sequence 132, App
5	49	64.5	15	14	US-10-354-240-130	Sequence 130, App
6	44	57.9	295	12	US-10-282-122A-53386	Sequence 53386, A
7	42	55.3	521	9	US-09-813-320-4	Sequence 4, Appli
8	42	55.3	530	9	US-09-813-320-2	Sequence 2, Appli
9	42	55.3	1195	14	US-10-192-440-10	Sequence 10, Appl
10	42	55.3	1196	12	US-10-332-447-6	Sequence 6, Appli
11	42	55.3	1196	14	US-10-255-532-2	Sequence 2, Appli
12	42	55.3	1196	15	US-10-391-399-82	Sequence 82, Appl
13	41	53.9	159	15	US-10-289-762-462	Sequence 462, App
14	41	53.9	413	12	US-10-424-599-208005	Sequence 208005,
15	40.5	53.3	356	14	US-10-156-761-9236	Sequence 9236, Ap
16	40	52.6	265	12	US-10-282-122A-51452	Sequence 51452, A
17	40	52.6	293	15	US-10-369-493-11818	Sequence 11818, A
18	39	51.3	415	12	US-10-282-122A-69001	Sequence 69001, A
19	39	51.3	418	12	US-10-425-114-67385	Sequence 67385, A
20	39	51.3	464	15	US-10-369-493-7681	Sequence 7681, Ap
21	39	51.3	481	15	US-10-369-493-4923	Sequence 4923, Ap
22	39	51.3	785	14	US-10-128-714-3071	Sequence 3071, Ap
23	39	51.3	864	14	US-10-128-714-8071	Sequence 8071, Ap
24	38	50.0	390	9	US-09-815-242-5284	Sequence 5284, Ap
25	38	50.0	391	9	US-09-908-931B-22	Sequence 22, Appl
26	38	50.0	391	12	US-10-282-122A-44110	Sequence 44110, A
27	38	50.0	392	12	US-10-282-122A-70603	Sequence 70603, A
28	38	50.0	392	12	US-10-282-122A-71682	Sequence 71682, A
29	38	50.0	398	9	US-09-815-242-12599	Sequence 12599, A
30	38	50.0	579	14	US-10-032-585-7891	Sequence 7891, Ap
31	38	50.0	650	12	US-10-282-122A-44605	Sequence 44605, A
32	37.5	49.3	682	12	US-10-425-114-43709	Sequence 43709, A
33	37	48.7	108	12	US-10-424-599-167575	Sequence 167575,
34	37	48.7	133	12	US-10-282-122A-63005	Sequence 63005, A
35	37	48.7	220	12	US-10-282-122A-73604	Sequence 73604, A
36	37	48.7	310	12	US-10-012-819-112	Sequence 112, App
37	37	48.7	341	12	US-10-282-122A-67345	Sequence 67345, A
38	37	48.7	367	15	US-10-369-493-8192	Sequence 8192, Ap
39	37	48.7	497	14	US-10-156-761-9214	Sequence 9214, Ap
40	37	48.7	801	12	US-10-282-122A-58937	Sequence 58937, A
41	37	48.7	803	12	US-10-282-122A-59057	Sequence 59057, A
42	37	48.7	803	12	US-10-335-977-4824	Sequence 4824, Ap
43	37	48.7	804	12	US-10-335-977-4825	Sequence 4825, Ap
44	37	48.7	1173	12	US-10-282-122A-69785	Sequence 69785, A
45	36.5	48.0	289	15	US-10-369-493-17664	Sequence 17664, A

ALIGNMENTS

RESULT 1
US-10-354-240-131
; Sequence 131, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 131
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 48
US-10-354-240-131

Query Match 100.0%; Score 76; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SRAEVSYVHVNGAKF 15
||||||||||||||||
Db 1 SRAEVSYVHVNGAKF 15

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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: PastSEQ for Windows Version 4.0
; SEQ ID NO 69
;    LENGTH: 514
;    TYPE: PRT
;    ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 76;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 1.9e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHVNGAKF 15
              |||||||||||||||
Db        290 SRAEVSYVHVNGAKF 304


RESULT 3
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;    LENGTH: 134
;    TYPE: PRT
;    ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match             94.7%;  Score 72;  DB 14;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 2.3e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              ||||||||||||||
Db        103 RAEVSYVHVNGAKF 116


RESULT 4
US-10-354-240-132
; Sequence 132, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 132
;    LENGTH: 15
;    TYPE: PRT
;    ORGANISM: Cryptomeria japonica
;    FEATURE:
;    NAME/KEY: MISC_FEATURE
;    LOCATION: (1)..(15)
;    OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 49
US-10-354-240-132

  Query Match             71.1%;  Score 54;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0041;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 SYVHVNGAKF 15
              ||||||||||
Db          1 SYVHVNGAKF 10


RESULT 5
US-10-354-240-130
; Sequence 130, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 130
;    LENGTH: 15
;    TYPE: PRT
;    ORGANISM: Cryptomeria japonica
;    FEATURE:
;    NAME/KEY: MISC_FEATURE
;    LOCATION: (1)..(15)
;    OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 47
US-10-354-240-130

  Query Match             64.5%;  Score 49;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.034;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHV 10
              ||||||||||
Db          6 SRAEVSYVHV 15


RESULT 6
US-10-282-122A-53386
```

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; Sequence 53386, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53386
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Clostridium difficile
US-10-282-122A-53386

  Query Match             57.9%;  Score 44;  DB 12;  Length 295;
  Best Local Similarity   53.3%;  Pred. No. 8.3;
  Matches    8;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 SRAEVSYVHVNGAKF 15
              |  ||  |::|||: |
Db        157 SAGEVGYMNVNGSSF 171


RESULT 7
US-09-813-320-4
; Sequence 4, Application US/09813320
; Patent No. US20020142378A1
; GENERAL INFORMATION:
;  APPLICANT: ZHANG, Hongyu et al.
;  TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
;  TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
;  TITLE OF INVENTION:  AND USES THEREOF
;  FILE REFERENCE: CL001172
;  CURRENT APPLICATION NUMBER: US/09/813,320
;  CURRENT FILING DATE:  2001-03-21
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 521
;   TYPE: PRT
;   ORGANISM: Human
US-09-813-320-4

  Query Match             55.3%;  Score 42;  DB 9;  Length 521;
  Best Local Similarity   50.0%;  Pred. No. 37;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              : ||:| | ||: |
Db         93 KVEVTYYHKNGSTF 106


RESULT 8
US-09-813-320-2
; Sequence 2, Application US/09813320
; Patent No. US20020142378A1
; GENERAL INFORMATION:
;  APPLICANT: ZHANG, Hongyu et al.
;  TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
;  TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
;  TITLE OF INVENTION:  AND USES THEREOF
;  FILE REFERENCE: CL001172
;  CURRENT APPLICATION NUMBER: US/09/813,320
;  CURRENT FILING DATE:  2001-03-21
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 530
;   TYPE: PRT
;   ORGANISM: Human
US-09-813-320-2

  Query Match             55.3%;  Score 42;  DB 9;  Length 530;
  Best Local Similarity   50.0%;  Pred. No. 38;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              : ||:| | ||: |
Db         93 KVEVTYYHKNGSTF 106


RESULT 9
US-10-192-440-10
; Sequence 10, Application US/10192440
; Publication No. US20030082718A1
; GENERAL INFORMATION:
;  APPLICANT: Curtis, Rory A. J.
;  TITLE OF INVENTION: 52908, A HUMAN POTASSIUM CHANNEL, AND
;  TITLE OF INVENTION:  USES THEREOF
;  FILE REFERENCE: MPI2001-009P1RNM
;  CURRENT APPLICATION NUMBER: US/10/192,440
;  CURRENT FILING DATE:  2002-07-10
;  PRIOR APPLICATION NUMBER: 60/341,953
;  PRIOR FILING DATE: 2001-12-19
;  PRIOR APPLICATION NUMBER: 60/304,243
;  PRIOR FILING DATE: 2001-07-10
;  NUMBER OF SEQ ID NOS: 15
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 1195
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-192-440-10

  Query Match             55.3%;  Score 42;  DB 14;  Length 1195;
  Best Local Similarity   50.0%;  Pred. No. 94;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              : ||:| | ||: |
Db         93 KVEVTYYHKNGSTF 106
```

```
RESULT 10
US-10-332-447-6
; Sequence 6, Application US/10332447
; Publication No. US20040053258A1
; GENERAL INFORMATION:
;  APPLICANT: INCYTE GENOMICS, INC.; RAUMANN, Brigitte E.;
;  APPLICANT:  THORNTON, Michael; DING, Li; YUE, Henry;
;  APPLICANT:  TANG, Y.Tom; HARLAND, Lee; BURFORD, Neil;
;  APPLICANT:  GREENE, Barrie D.; SANJANWALA, Madhu S.;
;  APPLICANT:  BAUGHN, Mariah R.; YAO, Monique G.; YANG, Junming;
;  APPLICANT:  ARVIZU, Chandra S.; GANDHI, Ameena R.;
;  APPLICANT:  HAFALIA, April J.A.; TRIBOULEY, Catherine M.;
;  APPLICANT:  WALIA, Narinder K.; AU-YOUNG, Janice;
;  APPLICANT:  WALSH, Roderick T.; RAMKUMAR, Jayalaxmi;
;  APPLICANT:  LU, Yan; LU, Dyung Aina M.; AZIMZAI, Yalda;
;  APPLICANT:  LAL, Preeti; ELLIOTT, Vicki S.; NGUYEN, Danniel B.;
;  APPLICANT:  XU, Yuming; SEILHAMER, Jeffrey J.; BOROWSKY, Mark L.;
;  APPLICANT:  KHAN, Farrah A.; KEARNEY, Liam; THANGAVELU, Kavitha;
;  APPLICANT:  DAS, Debopriya; POLICKY, Jennifer L.
;  TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
;  FILE REFERENCE: PI-0149 USN
;  CURRENT APPLICATION NUMBER: US/10/332,447
;  CURRENT FILING DATE:  2003-01-07
;  PRIOR APPLICATION NUMBER: US 60/216,547
;  PRIOR FILING DATE: 2000-07-07
;  PRIOR APPLICATION NUMBER: US 60/218,232
;  PRIOR FILING DATE: 2000-07-14
;  PRIOR APPLICATION NUMBER: US 60/220,112
;  PRIOR FILING DATE: 2000-07-21
;  PRIOR APPLICATION NUMBER: US 60/221,839
;  PRIOR FILING DATE: 2000-07-28
;  NUMBER OF SEQ ID NOS: 64
;  SOFTWARE: PERL Program
; SEQ ID NO 6
;   LENGTH: 1196
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No. US20040053258A1 7474240CD1
US-10-332-447-6

  Query Match             55.3%;  Score 42;  DB 12;  Length 1196;
  Best Local Similarity   50.0%;  Pred. No. 94;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              : ||:| | ||: |
Db         93 KVEVTYYHKNGSTF 106


RESULT 11
US-10-255-532-2
; Sequence 2, Application US/10255532
; Publication No. US20030099991A1
; GENERAL INFORMATION:
;  APPLICANT: Silos-Santiago, Inmaculada
;  TITLE OF INVENTION: METHODS OF USING 33751, A HUMAN
;  TITLE OF INVENTION:  POTASSIUM CHANNEL FAMILY MEMBER
;  FILE REFERENCE: MPI01-242P1RM
;  CURRENT APPLICATION NUMBER: US/10/255,532
;  CURRENT FILING DATE:  2002-09-26
;  PRIOR APPLICATION NUMBER: 60/325,854
;  PRIOR FILING DATE: 2001-09-27
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 1196
;   TYPE: PRT
;   ORGANISM: Homo sapien
US-10-255-532-2

  Query Match             55.3%;  Score 42;  DB 14;  Length 1196;
  Best Local Similarity   50.0%;  Pred. No. 94;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              : ||:| | ||: |
Db         93 KVEVTYYHKNGSTF 106


RESULT 12
US-10-391-399-82
; Sequence 82, Application US/10391399
; Publication No. US20030219806A1
; GENERAL INFORMATION:
;  APPLICANT: Millennium Pharmaceuticals, Inc.
;  APPLICANT:  Glucksmann, Maria Alexanndra
;  APPLICANT:  Curtis, Rory A. J.
;  APPLICANT:  Lora, Jose M.
;  APPLICANT:  Galvin, Katherine M.
;  APPLICANT:  Silos-Santiago, Inmaculada
;  TITLE OF INVENTION: NOVEL 18607, 15603, 69318, 12303, 48000,
;  TITLE OF INVENTION:  52920, 5433, 38554, 57301, 58324, 55063, 52991, 59914, 59921
;  TITLE OF INVENTION:  AND 33751 MOLECULES AND USES THEREFOR
;  FILE REFERENCE: MPI03-020OMNIM
;  CURRENT APPLICATION NUMBER: US/10/391,399
;  CURRENT FILING DATE:  2003-03-18
;  PRIOR APPLICATION NUMBER: US 09/789,481
;  PRIOR FILING DATE: 2001-02-20
;  PRIOR APPLICATION NUMBER: US 09/634,669
;  PRIOR FILING DATE: 2000-08-08
;  PRIOR APPLICATION NUMBER: US 09/583,373
;  PRIOR FILING DATE: 2000-05-31
;  PRIOR APPLICATION NUMBER: US 09/510,706
;  PRIOR FILING DATE: 2000-02-22
;  PRIOR APPLICATION NUMBER: US 10/309,804
;  PRIOR FILING DATE: 2002-12-04
;  PRIOR APPLICATION NUMBER: US 60/336,936
;  PRIOR FILING DATE: 2001-12-04
;  PRIOR APPLICATION NUMBER: US 10/094,214
;  PRIOR FILING DATE: 2002-03-08
;  PRIOR APPLICATION NUMBER: US60/275,078
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: US 09/828,035
;  PRIOR FILING DATE: 2001-04-06
;  PRIOR APPLICATION NUMBER: US 60/195,734
;  PRIOR FILING DATE: 2000-04-07
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 127
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 82
;   LENGTH: 1196
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-391-399-82

  Query Match             55.3%;  Score 42;  DB 15;  Length 1196;
  Best Local Similarity   50.0%;  Pred. No. 94;
  Matches    7;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 RAEVSYVHVNGAKF 15
              : ||:| | ||: |
Db         93 KVEVTYYHKNGSTF 106


RESULT 13
US-10-289-762-462
; Sequence 462, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragment
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, prev
;  TITLE OF INVENTION:  and treatment of infection
```

```
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/10/289,762
;  CURRENT FILING DATE:  2003-03-27
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 462
;   LENGTH: 159
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: 1...159
;   OTHER INFORMATION: Xaa=unknown or other
US-10-289-762-462

  Query Match             53.9%;  Score 41;  DB 15;  Length 159;
  Best Local Similarity   61.5%;  Pred. No. 15;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 AEVSYVHVNGAKF 15
              |:| |: || |||
Db         51 AQVQYLKVNDAKF 63


RESULT 14
US-10-424-599-208005
; Sequence 208005, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 208005
;   LENGTH: 413
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_29855C.1.pep
US-10-424-599-208005

  Query Match             53.9%;  Score 41;  DB 12;  Length 413;
  Best Local Similarity   70.0%;  Pred. No. 43;
  Matches    7;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          5 VSYVHVNGAK 14
              :||||::|||
Db        285 LSYVHLSGAK 294


RESULT 15
US-10-156-761-9236
; Sequence 9236, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9236
;   LENGTH: 356
;   TYPE: PRT
;   ORGANISM: Streptomyces avermitilis
US-10-156-761-9236

  Query Match             53.3%;  Score 40.5;  DB 14;  Length 356;
  Best Local Similarity   64.3%;  Pred. No. 45;
  Matches    9;  Conservative    3;  Mismatches    1;  Indels    1;  Gaps    1;

Qy          3 AEVSYVHV-NGAKF 15
              |||:| |: |||:|
Db        304 AEVAYDHMENGARF 317


Search completed: April 19, 2004, 11:29:30
Job time : 69.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-18
Perfect score: 79
Sequence: 1 ASKNFHLQKNTIGTG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	79	100.0	127	3	US-08-467-023-188	Sequence 188, App
2	79	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	43	54.4	96	4	US-09-732-210-999	Sequence 999, App
4	42	53.2	952	4	US-09-252-991A-32183	Sequence 32183, A
5	41	51.9	122	4	US-09-134-000C-5198	Sequence 5198, Ap
6	40	50.6	212	4	US-09-189-833B-2	Sequence 2, Appli
7	40	50.6	806	1	US-08-270-076A-11	Sequence 11, Appl
8	39	49.4	49	3	US-08-941-532-8	Sequence 8, Appli
9	39	49.4	234	4	US-09-219-983A-7	Sequence 7, Appli
10	39	49.4	348	4	US-09-107-532A-5421	Sequence 5421, Ap
11	39	49.4	351	4	US-09-134-000C-5390	Sequence 5390, Ap
12	39	49.4	433	3	US-08-941-532-6	Sequence 6, Appli
13	39	49.4	433	4	US-09-051-239A-2	Sequence 2, Appli
14	38	48.1	225	4	US-09-489-039A-10780	Sequence 10780, A
15	38	48.1	344	4	US-09-543-681A-7493	Sequence 7493, Ap
16	37	46.8	64	4	US-09-732-210-968	Sequence 968, App
17	37	46.8	127	3	US-08-806-121B-3	Sequence 3, Appli
18	37	46.8	127	4	US-09-443-061-3	Sequence 3, Appli
19	37	46.8	214	4	US-09-257-583-15	Sequence 15, Appl
20	37	46.8	257	4	US-09-198-452A-151	Sequence 151, App
21	37	46.8	583	4	US-09-328-352-5822	Sequence 5822, Ap
22	36.5	46.2	574	1	US-08-354-618-2	Sequence 2, Appli
23	36	45.6	60	4	US-09-134-001C-5448	Sequence 5448, Ap
24	36	45.6	86	2	US-08-933-750C-40	Sequence 40, Appl
25	36	45.6	86	3	US-09-234-613-40	Sequence 40, Appl
26	36	45.6	288	4	US-09-273-839A-8	Sequence 8, Appli
27	36	45.6	355	4	US-09-134-001C-3580	Sequence 3580, Ap
28	36	45.6	373	4	US-09-540-236-2485	Sequence 2485, Ap
29	36	45.6	500	4	US-09-178-093B-26	Sequence 26, Appl
30	36	45.6	550	4	US-09-907-794A-227	Sequence 227, App
31	36	45.6	550	4	US-09-905-125A-227	Sequence 227, App
32	36	45.6	550	4	US-09-902-775A-227	Sequence 227, App
33	36	45.6	649	3	US-09-188-930-305	Sequence 305, App
34	36	45.6	649	4	US-09-312-283C-305	Sequence 305, App
35	36	45.6	677	4	US-09-543-681A-5460	Sequence 5460, Ap
36	36	45.6	719	1	US-08-082-849B-31	Sequence 31, Appl
37	36	45.6	719	5	PCT-US94-01624-31	Sequence 31, Appl
38	36	45.6	735	1	US-08-021-601-4	Sequence 4, Appli
39	36	45.6	735	1	US-08-082-849B-4	Sequence 4, Appli
40	36	45.6	735	5	PCT-US94-01624-4	Sequence 4, Appli
41	36	45.6	903	1	US-08-021-601-12	Sequence 12, Appl
42	36	45.6	903	1	US-08-082-849B-12	Sequence 12, Appl
43	36	45.6	903	5	PCT-US94-01624-12	Sequence 12, Appl
44	36	45.6	2662	4	US-09-595-684B-31	Sequence 31, Appl
45	35.5	44.9	137	1	US-08-137-117D-31	Sequence 31, Appl

ALIGNMENTS

```
RESULT 1
US-08-467-023-188
; Sequence 188, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  188:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  127 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
```

US-08-467-023-188

Query Match 100.0%; Score 79; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 1e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ASKNFHLQKNTIGTG 15
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Db         87 ASKNFHLQKNTIGTG 101
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RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 79; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 4.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ASKNFHLQKNTIGTG 15
              |||||||||||||||
Db        240 ASKNFHLQKNTIGTG 254
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RESULT 3
US-09-732-210-999
; Sequence 999, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 999
; LENGTH: 96
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-732-210-999

Query Match 54.4%; Score 43; DB 4; Length 96;
Best Local Similarity 66.7%; Pred. No. 2;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```
Qy          2 SKNFHLQKNTIG 13
              || :|||:| |
Db         23 SKAYHLQKSTCG 34
```

RESULT 4
US-09-252-991A-32183
; Sequence 32183, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32183
; LENGTH: 952
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32183

Query Match 53.2%; Score 42; DB 4; Length 952;
Best Local Similarity 50.0%; Pred. No. 37;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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Qy          2 SKNFHLQKNTIG 13
              ::|||| :| :|
Db        574 ARNFHLHRNFVG 585
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RESULT 5
US-09-134-000C-5198
; Sequence 5198, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C

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;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5198
;    LENGTH: 122
;    TYPE: PRT
;    ORGANISM: Enterococcus faecalis
US-09-134-000C-5198

  Query Match             51.9%;  Score 41;  DB 4;  Length 122;
  Best Local Similarity   77.8%;  Pred. No. 5.8;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKN 10
              ||:|||:||
Db          3 SKSFHLEKN 11


RESULT 6
US-09-189-833B-2
; Sequence 2, Application US/09189833B
; Patent No. 6653446
; GENERAL INFORMATION:
;  APPLICANT: Bednarik et al.
;  TITLE OF INVENTION: Human Hypoxanthine-(Guanine) Phosphoribosyl Transferase-2
;  FILE REFERENCE: PF138P1D1
;  CURRENT APPLICATION NUMBER: US/09/189,833B
;  CURRENT FILING DATE:  1998-11-12
;  PRIOR APPLICATION NUMBER: US 08/461,031
;  PRIOR FILING DATE: 1995-06-05
;  PRIOR APPLICATION NUMBER: PCT/US94/11914
;  PRIOR FILING DATE: 1994-10-19
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
;    LENGTH: 212
;    TYPE: PRT
;    ORGANISM: Homo sapiens
US-09-189-833B-2

  Query Match             50.6%;  Score 40;  DB 4;  Length 212;
  Best Local Similarity   46.7%;  Pred. No. 16;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              | |||  : :: :|||
Db        126 AGKNFLIVEDVVGTG 140


RESULT 7
US-08-270-076A-11
; Sequence 11, Application US/08270076A
; Patent No. 5667986
;  GENERAL INFORMATION:
;    APPLICANT:  Sleep, Darrell
;    APPLICANT:  Goodey, Andrew R
;    APPLICANT:  Vakeria, Diana
;    TITLE OF INVENTION:  Yeast Promoter
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  The BOC Group, Inc.
;      STREET:  100 Mountain Avenue, Murray Hill
;      CITY:  New Providence
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07974
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/270,076A
;      FILING DATE:  01-JUL-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 8923521.2
;      FILING DATE:  18-OCT-1989
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/597,687
;      FILING DATE:  16-OCT-1990
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/925,286
;      FILING DATE:  04-AUG-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Swope, R. Hain
;      REGISTRATION NUMBER:  24864
;      REFERENCE/DOCKET NUMBER:  92H834-3
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  908/771-6292
;      TELEFAX:  908/771-6159
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  806 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-270-076A-11

  Query Match             50.6%;  Score 40;  DB 1;  Length 806;
  Best Local Similarity   57.1%;  Pred. No. 71;
  Matches    8;  Conservative    3;  Mismatches    1;  Indels    2;  Gaps    1;

Qy          4 NFHLQK--NTIGTG 15
              :||||:  ||:| |
Db        416 SFHLQRTNNTLGAG 429


RESULT 8
US-08-941-532-8
; Sequence 8, Application US/08941532
; Patent No. 6096946
;  GENERAL INFORMATION:
;    APPLICANT:  ROBERTS, Jeremy Alan
;    APPLICANT:  COUPE, Simon Allan
;    APPLICANT:  JENKINS, Elizabeth Sarah
;    TITLE OF INVENTION:  CONTROL OF POD DEHISCENCE
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/941,532
;      FILING DATE:  30-SEP-1997
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB96/00757
;      FILING DATE:  29-MAR-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9506684.1
;      FILING DATE:  31-MAR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Esmond, Robert W.
;      REGISTRATION NUMBER:  32,893
;      REFERENCE/DOCKET NUMBER:  0623.0580001/RWE
```

```
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  49 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-941-532-8

  Query Match             49.4%;  Score 39;  DB 3;  Length 49;
  Best Local Similarity   46.7%;  Pred. No. 4.8;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              |:||   :  : ||||
Db         10 ATKNIRISNSDIGTG 24


RESULT 9
US-09-219-983A-7
; Sequence 7, Application US/09219983A
; Patent No. 6380159
; GENERAL INFORMATION:
;  APPLICANT:  Wolfner, Mariana
;  APPLICANT:  Lung, Oliver
;  APPLICANT:  Tram, Khanh-Uyen
;  TITLE OF INVENTION:  GENES FOR MALE ACCESSORY GLAND PROTEINS IN DROSOPHILA
;  TITLE OF INVENTION:  MELANOGASTER
;  FILE REFERENCE:  19603/1791
;  CURRENT APPLICATION NUMBER: US/09/219,983A
;  CURRENT FILING DATE:  1998-12-23
;  PRIOR APPLICATION NUMBER:  60/071,315
;  PRIOR FILING DATE:  1997-12-23
;  NUMBER OF SEQ ID NOS:  35
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 7
;   LENGTH: 234
;   TYPE: PRT
;   ORGANISM: Drosophila melanogaster
US-09-219-983A-7

  Query Match             49.4%;  Score 39;  DB 4;  Length 234;
  Best Local Similarity   46.2%;  Pred. No. 27;
  Matches    6;  Conservative    5;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIGT 14
              |::||::||  : |
Db        119 SRHFHIEKNLMQT 131


RESULT 10
US-09-107-532A-5421
; Sequence 5421, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 5421:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 348 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        HYPOTHETICAL: YES
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...348
;        SEQUENCE DESCRIPTION: SEQ ID NO: 5421:
US-09-107-532A-5421

  Query Match             49.4%;  Score 39;  DB 4;  Length 348;
  Best Local Similarity   63.6%;  Pred. No. 42;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTI 12
              | |||| |:|:
Db        301 STNFHLPKSTL 311


RESULT 11
US-09-134-000C-5390
; Sequence 5390, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5390
;   LENGTH: 351
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-5390

  Query Match             49.4%;  Score 39;  DB 4;  Length 351;
  Best Local Similarity   63.6%;  Pred. No. 42;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTI 12
              | |||| |:|:
Db        304 STNFHLPKSTL 314


RESULT 12
US-08-941-532-6
; Sequence 6, Application US/08941532
; Patent No. 6096946
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;  GENERAL INFORMATION:
;    APPLICANT:  ROBERTS, Jeremy Alan
;    APPLICANT:  COUPE, Simon Allan
;    APPLICANT:  JENKINS, Elizabeth Sarah
;    TITLE OF INVENTION:  CONTROL OF POD DEHISCENCE
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/941,532
;      FILING DATE:  30-SEP-1997
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB96/00757
;      FILING DATE:  29-MAR-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9506684.1
;      FILING DATE:  31-MAR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Esmond, Robert W.
;      REGISTRATION NUMBER:  32,893
;      REFERENCE/DOCKET NUMBER:  0623.0580001/RWE
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 433 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-941-532-6

  Query Match             49.4%;  Score 39;  DB 3;  Length 433;
  Best Local Similarity   46.7%;  Pred. No. 54;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              |:||   :  : ||||
Db        251 ATKNIRISNSDIGTG 265


RESULT 13
US-09-051-239A-2
; Sequence 2, Application US/09051239A
; Patent No. 6420628
; GENERAL INFORMATION:
;  APPLICANT:  ULVSKOV, Peter
;  APPLICANT:  CHILD, Robin
;  APPLICANT:  VAN ONCKELIN, Henri
;  APPLICANT:  PRINSEN, Els
;  APPLICANT:  BORKHARDT, Bernard
;  APPLICANT:  SANDER, Lilli
;  APPLICANT:  PETERSEN, Morten
;  APPLICANT:  BUNDGARD POULSEN, Gert
;  APPLICANT:  BOTTERMAN, Johan
;  TITLE OF INVENTION:  Seed Shattering
;  FILE REFERENCE:  2121-0138P
;  CURRENT APPLICATION NUMBER: US/09/051,239A
;  CURRENT FILING DATE:  1998-09-28
;  PRIOR APPLICATION NUMBER:  PCT/EP96/04313
;  PRIOR FILING DATE:  1996-10-04
;  PRIOR APPLICATION NUMBER:  EP 95 402241.4
;  PRIOR FILING DATE:  1995-10-06
;  PRIOR APPLICATION NUMBER:  EP 95 203328.0
;  PRIOR FILING DATE:  1995-12-08
;  NUMBER OF SEQ ID NOS:  14
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 433
;   TYPE: PRT
;   ORGANISM: Brassica napus
;   FEATURE:
;   OTHER INFORMATION: Strain cv. Topaz.
US-09-051-239A-2

  Query Match             49.4%;  Score 39;  DB 4;  Length 433;
  Best Local Similarity   46.7%;  Pred. No. 54;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              |:||   :  : ||||
Db        251 ATKNIRISNSDIGTG 265


RESULT 14
US-09-489-039A-10780
; Sequence 10780, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 10780
;   LENGTH: 225
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10780

  Query Match             48.1%;  Score 38;  DB 4;  Length 225;
  Best Local Similarity   70.0%;  Pred. No. 39;
  Matches    7;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          6 HLQKNTIGTG 15
              || :|||| |
Db .      108 HLCRNTIGVG 117


RESULT 15
US-09-543-681A-7493
; Sequence 7493, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7493
;   LENGTH: 344
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-7493

  Query Match             48.1%;  Score 38;  DB 4;  Length 344;
  Best Local Similarity   70.0%;  Pred. No. 63;
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Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Qy          6 HLQKNTIGTG 15
              || :|||| |
Db        108 HLCRNTIGVG 117
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Search completed: April 19, 2004, 12:38:22
Job time : 14.6939 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-17
Perfect score: 79
Sequence: 1 GIDIFASKNFHLQKN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	79	100.0	127	3	US-08-467-023-188	Sequence 188, App
2	79	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	43	54.4	287	4	US-09-540-236-2879	Sequence 2879, Ap
4	41	51.9	122	4	US-09-134-000C-5198	Sequence 5198, Ap
5	40	50.6	473	4	US-09-107-532A-5371	Sequence 5371, Ap
6	38	48.1	448	4	US-09-198-452A-216	Sequence 216, App
7	37	46.8	216	4	US-09-540-236-3103	Sequence 3103, Ap
8	37	46.8	360	4	US-09-134-000C-5241	Sequence 5241, Ap
9	37	46.8	462	4	US-09-543-681A-5495	Sequence 5495, Ap
10	36.5	46.2	968	4	US-09-228-986-76	Sequence 76, Appl
11	36	45.6	65	4	US-09-134-000C-4659	Sequence 4659, Ap
12	36	45.6	127	3	US-08-806-121B-3	Sequence 3, Appli
13	36	45.6	127	4	US-09-443-061-3	Sequence 3, Appli
14	36	45.6	132	4	US-09-660-465A-3	Sequence 3, Appli
15	36	45.6	133	1	US-07-800-366-1	Sequence 1, Appli
16	36	45.6	133	1	US-08-354-456A-5	Sequence 5, Appli
17	36	45.6	133	1	US-08-354-456A-6	Sequence 6, Appli
18	36	45.6	133	1	US-08-225-224-3	Sequence 3, Appli
19	36	45.6	133	1	US-08-318-193-89	Sequence 89, Appl
20	36	45.6	133	1	US-08-284-393B-1	Sequence 1, Appli
21	36	45.6	133	1	US-08-284-393B-2	Sequence 2, Appli
22	36	45.6	133	1	US-08-284-393B-3	Sequence 3, Appli
23	36	45.6	133	1	US-08-734-471-1	Sequence 1, Appli
24	36	45.6	133	3	US-08-722-258-3	Sequence 3, Appli
25	36	45.6	133	3	US-08-817-787-13	Sequence 13, Appl
26	36	45.6	133	4	US-09-310-026-1	Sequence 1, Appli
27	36	45.6	133	4	US-09-538-873-2	Sequence 2, Appli
28	36	45.6	133	4	US-09-462-941-9	Sequence 9, Appli
29	36	45.6	133	4	US-09-554-451-9	Sequence 9, Appli
30	36	45.6	133	5	PCT-US95-04468-3	Sequence 3, Appli
31	36	45.6	133	5	PCT-US95-08950-1	Sequence 1, Appli
32	36	45.6	133	5	PCT-US95-08950-2	Sequence 2, Appli
33	36	45.6	133	5	PCT-US95-08950-3	Sequence 3, Appli
34	36	45.6	133	6	5210029-1	Patent No. 5210029
35	36	45.6	133	6	5256769-1	Patent No. 5256769
36	36	45.6	133	6	5464939-2	Patent No. 5464939
37	36	45.6	134	6	5496924-55	Patent No. 5496924
38	36	45.6	153	3	US-09-012-366-3	Sequence 3, Appli
39	36	45.6	153	3	US-08-759-628-8	Sequence 8, Appli
40	36	45.6	153	4	US-09-522-217-111	Sequence 111, App
41	36	45.6	153	4	US-09-923-246-111	Sequence 111, App
42	36	45.6	153	4	US-10-295-723-111	Sequence 111, App
43	36	45.6	153	6	5314995-7	Patent No. 5314995
44	36	45.6	156	4	US-09-000-003A-2	Sequence 2, Appli
45	36	45.6	157	3	US-08-818-562-2	Sequence 2, Appli

ALIGNMENTS

```
RESULT 1
US-08-467-023-188
; Sequence 188, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  188:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  127 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-188

Query Match 100.0%; Score 79; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
||||||||||||||||
Db 82 GIDIFASKNFHLQKN 96

RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 79; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
||||||||||||||||
Db 235 GIDIFASKNFHLQKN 249

RESULT 3
US-09-540-236-2879
; Sequence 2879, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATA
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2005-001
; CURRENT APPLICATION NUMBER: US/09/540,236
; CURRENT FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 2879
; LENGTH: 287
; TYPE: PRT
; ORGANISM: M.catarrhalis
US-09-540-236-2879

Query Match 54.4%; Score 43; DB 4; Length 287;
Best Local Similarity 53.3%; Pred. No. 3.8;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
| :|| : ||::|||
Db 24 GENIFENVNFNIQKN 38

RESULT 4
US-09-134-000C-5198
; Sequence 5198, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5198
; LENGTH: 122
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5198

Query Match 51.9%; Score 41; DB 4; Length 122;
Best Local Similarity 77.8%; Pred. No. 3.3;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 7 SKNFHLQKN 15
||:|||:||
Db 3 SKSFHLEKN 11

RESULT 5
US-09-107-532A-5371
; Sequence 5371, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD/ROM ISO9660

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;              COMPUTER: PC
;              OPERATING SYSTEM: <Unknown>
;              SOFTWARE: ASCII
;         CURRENT APPLICATION DATA:
;              APPLICATION NUMBER: US/09/107,532A
;              FILING DATE: 30-Jun-1998
;         PRIOR APPLICATION DATA:
;              APPLICATION NUMBER: 60/085,598
;              FILING DATE: 14 May 1998
;              APPLICATION NUMBER: 60/051571
;              FILING DATE: July 2, 1997
;         ATTORNEY/AGENT INFORMATION:
;              NAME: Ariniello, Pamela Deneke
;              REGISTRATION NUMBER: 40,489
;              REFERENCE/DOCKET NUMBER: GTC-012
;         TELECOMMUNICATION INFORMATION:
;              TELEPHONE: (781)893-5007
;              TELEFAX: (781)893-8277
;    INFORMATION FOR SEQ ID NO: 5371:
;         SEQUENCE CHARACTERISTICS:
;              LENGTH: 473 amino acids
;              TYPE: amino acid
;              TOPOLOGY: linear
;         MOLECULE TYPE: protein
;         HYPOTHETICAL: YES
;         ORIGINAL SOURCE:
;              ORGANISM: Enterococcus faecium
;         FEATURE:
;              NAME/KEY:  misc_feature
;              LOCATION: (B) LOCATION 1...473
;         SEQUENCE DESCRIPTION: SEQ ID NO: 5371:
US-09-107-532A-5371

  Query Match             50.6%;  Score 40;  DB 4;  Length 473;
  Best Local Similarity   46.7%;  Pred. No. 25;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 GIDIFASKNFHLQKN 15
              |:::|   | | |:||
Db         38 GVELFMEKFFGLKKN 52


RESULT 6
US-09-198-452A-216
; Sequence 216, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 216
;   LENGTH: 448
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
US-09-198-452A-216

  Query Match             48.1%;  Score 38;  DB 4;  Length 448;
  Best Local Similarity   42.9%;  Pred. No. 54;
  Matches    6;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQKN 15
              :: |    | ||:||
Db        191 VEYFPGHNIHLKKN 204


RESULT 7
US-09-540-236-3103
; Sequence 3103, Application US/09540236
; Patent No. 6673910
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO MORAXELLA CATAR
;  TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.2005-001
;  CURRENT APPLICATION NUMBER: US/09/540,236
;  CURRENT FILING DATE: 2000-04-04
;  NUMBER OF SEQ ID NOS: 3840
; SEQ ID NO 3103
;   LENGTH: 216
;   TYPE: PRT
;   ORGANISM: M.catarrhalis
US-09-540-236-3103

  Query Match             46.8%;  Score 37;  DB 4;  Length 216;
  Best Local Similarity   54.5%;  Pred. No. 36;
  Matches    6;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          4 IFASKNFHLQK 14
              :| |: |||:|
Db         65 LFISQRFHLEK 75


RESULT 8
US-09-134-000C-5241
; Sequence 5241, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5241
;   LENGTH: 360
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-5241

  Query Match             46.8%;  Score 37;  DB 4;  Length 360;
  Best Local Similarity   42.9%;  Pred. No. 64;
  Matches    6;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 GIDIFASKNFHLQK 14
              |:|:  :||:  ||
Db        235 GVDLSQAKNYQKQK 248


RESULT 9
US-09-543-681A-5495
; Sequence 5495, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5495
;   LENGTH: 462
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-5495
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  Query Match             46.8%;  Score 37;  DB 4;  Length 462;
  Best Local Similarity   50.0%;  Pred. No. 86;
  Matches    7;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 GIDIFASKNFHLQK 14
              |  |||:|  :|  |
Db        260 GTSIFANKEYHGNK 273


RESULT 10
US-09-228-986-76
; Sequence 76, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
;  APPLICANT: Strabala, Timothy
;  APPLICANT: Nieuwenhuizen, Niels
;  TITLE OF INVENTION: Compositions Isolated from Plant Cells
;  TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
;  FILE REFERENCE: 11000/1020
;  CURRENT APPLICATION NUMBER: US/09/228,986
;  CURRENT FILING DATE: 1999-01-12
;  NUMBER OF SEQ ID NOS: 130
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 76
;   LENGTH: 968
;   TYPE: PRT
;   ORGANISM: Eucalyptus grandis
US-09-228-986-76

  Query Match             46.2%;  Score 36.5;  DB 4;  Length 968;
  Best Local Similarity   43.8%;  Pred. No. 2.5e+02;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    1;  Gaps    1;

Qy          1 GID-IFASKNFHLQKN 15
              |:| :  :|:||  ||
Db        192 GLDLLLKAKHFHFNKN 207


RESULT 11
US-09-134-000C-4659
; Sequence 4659, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4659
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-4659

  Query Match             45.6%;  Score 36;  DB 4;  Length 65;
  Best Local Similarity   53.8%;  Pred. No. 13;
  Matches    7;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQK 14
              | |||     |:||
Db         48 IGIFAENKIHVQK 60


RESULT 12
US-08-806-121B-3
; Sequence 3, Application US/08806121B
; Patent No. 6008319
;  GENERAL INFORMATION:
;    APPLICANT:  Epstein, Alan L.
;    TITLE OF INVENTION:  Vasopermeability Enhancing
;    TITLE OF INVENTION:  Peptide Fragment of Human Interleukin-2
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Fulbright & Jaworski, L.L.P.
;      STREET:  865 South Figueroa Street, 29th Floor
;      CITY:  Los Angeles
;      STATE:  California
;      ZIP:  90017-2571
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy Disk, 3.50 inch, 1.44 Mb
;      MEDIUM TYPE:  storage
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows NT-WordPerfect 8.0
;      SOFTWARE:  ASCII (DOS) TEXT
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/806,121B
;      FILING DATE:  23-DEC-1996
;      CLASSIFICATION:  514
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Churchill, Margaret A. (Ph.D.)
;      REGISTRATION NUMBER:  39,944
;      REFERENCE/DOCKET NUMBER:  1920-325XX
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (213) 892-9200
;      TELEFAX:  (213) 680-4518
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  127 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-806-121B-3

  Query Match             45.6%;  Score 36;  DB 3;  Length 127;
  Best Local Similarity   50.0%;  Pred. No. 29;
  Matches    6;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQ 13
              :::  ||||||:
Db         67 LNLAQSKNFHLR 78


RESULT 13
US-09-443-061-3
; Sequence 3, Application US/09443061
; Patent No. 6403096
;   GENERAL INFORMATION:
;        APPLICANT: Epstein, Alan L.
;        TITLE OF INVENTION: Vasopermeability Enhancing
;                            Peptide Fragment of Human Interleukin-2
;        NUMBER OF SEQUENCES: 3
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Fulbright & Jaworski, L.L.P.
;             STREET: 865 South Figueroa Street, 29th Floor
;             CITY: Los Angeles
;             STATE: California
;             ZIP: 90017-2571
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy Disk, 3.50 inch, 1.44 Mb
;                          storage
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: Windows NT-WordPerfect 8.0
;             SOFTWARE: ASCII (DOS) TEXT
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/443,061
;             FILING DATE: 18-No. 6403096-1999
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 08/806,121
;             FILING DATE: 23-DEC-1996
;
```

; ATTORNEY/AGENT INFORMATION:
; NAME: Churchill, Margaret A. (Ph.D.)
; REGISTRATION NUMBER: 39,944
; REFERENCE/DOCKET NUMBER: 1920-325XX
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 892-9200
; TELEFAX: (213) 680-4518
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 127 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-443-061-3

Query Match 45.6%; Score 36; DB 4; Length 127;
Best Local Similarity 50.0%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQ 13
::: ||||||:
Db 67 LNLAQSKNFHLR 78

RESULT 14
US-09-660-465A-3
; Sequence 3, Application US/09660465A
; Patent No. 6596853
; GENERAL INFORMATION:
; APPLICANT: THEZE, JACQUES
; APPLICANT: ECKENBERG, RALPH
; APPLICANT: MOREAU, JEAN-LOUIS
; APPLICANT: MAZIE, JEAN-CLAUDE
; TITLE OF INVENTION: BIOLOGICAL APPLICATIONS OF NEW PEPTIDES OF IL-2 AND DERIVATIVES A
; TITLE OF INVENTION: AS THERAPEUTIC AGENTS
; FILE REFERENCE: 197287US0CONT
; CURRENT APPLICATION NUMBER: US/09/660,465A
; CURRENT FILING DATE: 2000-09-12
; PRIOR APPLICATION NUMBER: US/09/116,594
; PRIOR FILING DATE: 1998-07-16
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Peptide
US-09-660-465A-3

Query Match 45.6%; Score 36; DB 4; Length 132;
Best Local Similarity 50.0%; Pred. No. 31;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQ 13
::: ||||||:
Db 70 LNLAQSKNFHLR 81

RESULT 15
US-07-800-366-1
; Sequence 1, Application US/07800366
; Patent No. 5250296
; GENERAL INFORMATION:
; APPLICANT: OOTSU, Koichiro
; TITLE OF INVENTION: IMMUNOSTIMULANT AGENT CONTAINING
; TITLE OF INVENTION: INTERLEUKIN-2 AND 5'-DEOXY-5-FLUOROURIDINE
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS &
; ADDRESSEE: CUSHMAN
; STREET: 130 Water Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: US
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/800,366
; FILING DATE: 19911127
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Castle, Donald R
; REGISTRATION NUMBER: 24,220
; REFERENCE/DOCKET NUMBER: 41417(281)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)523-3400
; TELEFAX: (617)523-6440
; TELEX: 200291 STRE UR
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 133 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-800-366-1

Query Match 45.6%; Score 36; DB 1; Length 133;
Best Local Similarity 50.0%; Pred. No. 31;
Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQ 13
::: ||||||:
Db 70 LNLAQSKNFHLR 81

Search completed: April 19, 2004, 12:38:22
Job time : 15.6939 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-18
Perfect score: 79
Sequence: 1 ASKNFHLQKNTIGTG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	79	100.0	15	14	US-10-354-240-121	Sequence 121, App
2	79	100.0	20	14	US-10-354-240-161	Sequence 161, App
3	79	100.0	80	14	US-10-354-240-1	Sequence 1, Appli
4	79	100.0	105	14	US-10-354-240-2	Sequence 2, Appli
5	79	100.0	134	14	US-10-354-240-3	Sequence 3, Appli
6	79	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
7	54	68.4	15	14	US-10-354-240-122	Sequence 122, App
8	53	67.1	15	14	US-10-354-240-120	Sequence 120, App
9	44	55.7	83	12	US-10-424-599-237164	Sequence 237164,
10	43	54.4	83	12	US-10-220-120-392	Sequence 392, App
11	43	54.4	88	12	US-10-424-599-231574	Sequence 231574,
12	43	54.4	97	10	US-09-909-567B-43	Sequence 43, Appl
13	43	54.4	102	15	US-10-264-049-4052	Sequence 4052, Ap
14	43	54.4	121	9	US-09-925-301-1576	Sequence 1576, Ap
15	43	54.4	137	9	US-09-925-300-1786	Sequence 1786, Ap
16	42	53.2	75	12	US-10-424-599-177955	Sequence 177955,
17	41	51.9	348	12	US-10-221-278-673	Sequence 673, App
18	41	51.9	348	15	US-10-291-172-673	Sequence 673, App
19	41	51.9	391	12	US-10-282-122A-52549	Sequence 52549, A
20	41	51.9	530	15	US-10-369-493-22022	Sequence 22022, A
21	41	51.9	538	12	US-10-282-122A-52280	Sequence 52280, A
22	41	51.9	858	10	US-09-957-880A-2	Sequence 2, Appli
23	40	50.6	212	9	US-09-189-833B-2	Sequence 2, Appli
24	40	50.6	212	9	US-09-902-705-2	Sequence 2, Appli
25	40	50.6	254	15	US-10-264-237-2147	Sequence 2147, Ap
26	40	50.6	289	12	US-10-425-114-58456	Sequence 58456, A
27	40	50.6	313	12	US-10-206-915-554	Sequence 554, App
28	40	50.6	313	12	US-10-199-670-554	Sequence 554, App
29	40	50.6	313	12	US-10-221-278-297	Sequence 297, App
30	40	50.6	313	12	US-10-201-858-554	Sequence 554, App
31	40	50.6	313	12	US-10-205-890-554	Sequence 554, App
32	40	50.6	313	12	US-10-208-024-554	Sequence 554, App
33	40	50.6	313	12	US-10-201-853-554	Sequence 554, App
34	40	50.6	313	12	US-10-174-581-554	Sequence 554, App
35	40	50.6	313	12	US-10-176-483-554	Sequence 554, App
36	40	50.6	313	12	US-10-176-749-554	Sequence 554, App
37	40	50.6	313	12	US-10-176-914-554	Sequence 554, App
38	40	50.6	313	12	US-10-176-915-554	Sequence 554, App
39	40	50.6	313	12	US-10-176-484-554	Sequence 554, App
40	40	50.6	313	12	US-10-180-550-554	Sequence 554, App
41	40	50.6	313	12	US-10-183-014-554	Sequence 554, App
42	40	50.6	313	12	US-10-187-738-554	Sequence 554, App
43	40	50.6	313	12	US-10-187-740-554	Sequence 554, App
44	40	50.6	313	12	US-10-187-883-554	Sequence 554, App
45	40	50.6	313	12	US-10-194-363-554	Sequence 554, App

ALIGNMENTS

RESULT 1
US-10-354-240-121
; Sequence 121, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 121
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 38
US-10-354-240-121

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 ASKNFHLQKNTIGTG 15
              |||||||||||||||
Db          1 ASKNFHLQKNTIGTG 15
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RESULT 2
US-10-354-240-161
; Sequence 161, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 161
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(20)
;   OTHER INFORMATION: Figure 7, Row d
US-10-354-240-161

  Query Match             100.0%;  Score 79;  DB 14;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 9.4e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              ||||||||||||||||
Db          6 ASKNFHLQKNTIGTG 20


RESULT 3
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match             100.0%;  Score 79;  DB 14;  Length 80;
  Best Local Similarity   100.0%;  Pred. No. 4e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              ||||||||||||||||
Db         35 ASKNFHLQKNTIGTG 49


RESULT 4
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-2

  Query Match             100.0%;  Score 79;  DB 14;  Length 105;
  Best Local Similarity   100.0%;  Pred. No. 5.3e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              ||||||||||||||||
Db         35 ASKNFHLQKNTIGTG 49


RESULT 5
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match             100.0%;  Score 79;  DB 14;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 6.9e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              ||||||||||||||||
Db         35 ASKNFHLQKNTIGTG 49


RESULT 6
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US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 79;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 2.8e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKNTIGTG 15
              |||||||||||||||
Db        240 ASKNFHLQKNTIGTG 254


RESULT 7
US-10-354-240-122
; Sequence 122, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 122
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 39
US-10-354-240-122

  Query Match             68.4%;  Score 54;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.015;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 HLQKNTIGTG 15
              ||||||||||
Db          1 HLQKNTIGTG 10


RESULT 8
US-10-354-240-120
; Sequence 120, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 37
US-10-354-240-120

  Query Match             67.1%;  Score 53;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.023;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 ASKNFHLQKN 10
              ||||||||||
Db          6 ASKNFHLQKN 15


RESULT 9
US-10-424-599-237164
; Sequence 237164, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 237164
;   LENGTH: 83
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(83)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_56184C.1.pep
US-10-424-599-237164

  Query Match             55.7%;  Score 44;  DB 12;  Length 83;
  Best Local Similarity   69.2%;  Pred. No. 5.1;
  Matches    9;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIGT 14
              ||  |||| :| ||
Db         24 SKAXHLQKSTCGT 36


RESULT 10
US-10-220-120-392
; Sequence 392, Application US/10220120
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; Publication No. US20040048253A1
; GENERAL INFORMATION:
;  APPLICANT: INCYTE GENOMICS, INC.
;  APPLICANT:  PANZER, Scott R.
;  APPLICANT:  SPIRO, Peter A.
;  APPLICANT:  BANVILLE, Steven C.
;  APPLICANT:  SHAH, Purvi
;  APPLICANT:  CHALUP, Michael S.
;  APPLICANT:  CHANG, Simon C.
;  APPLICANT:  CHEN, Alice
;  APPLICANT:  D'SA, Steven A.
;  APPLICANT:  AMSHEY, Stefan
;  APPLICANT:  DAHL, Christopher R.
;  APPLICANT:  DAM, Tam C.
;  APPLICANT:  DANIELS, Susan E.
;  APPLICANT:  DUFOUR, Gerard E.
;  APPLICANT:  FLORES, Vincent
;  APPLICANT:  FONG, Willy T.
;  APPLICANT:  GREENAWALT, Lila B..
;  APPLICANT:  HILLMAN, Jennifer L.
;  APPLICANT:  JONES, Anissa L.
;  APPLICANT:  LIU, Tommy F.
;  APPLICANT:  ROSEBERRY, Ann M.
;  APPLICANT:  ROSEN, Bruce H.
;  APPLICANT:  RUSSO, Frank D.
;  APPLICANT:  STOCKDREHER, Theresa K.
;  APPLICANT:  DAFFO, Abel
;  APPLICANT:  WRIGHT, Rachel J.
;  APPLICANT:  YAP, Pierre E.
;  APPLICANT:  YU, Jimmy Y.
;  APPLICANT:  BRADLEY, Diana L.
;  APPLICANT:  BRATCHER, Shawn R.
;  APPLICANT:  CHEN, Wensheng
;  APPLICANT:  COHEN, Howard J.
;  APPLICANT:  HODGSON, David M.
;  APPLICANT:  LINCOLN, Stephen E.
;  APPLICANT:  JACKSON, Stuart
;  TITLE OF INVENTION: MOLECULES FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: PT-1113 PCT
;  CURRENT APPLICATION NUMBER: US/10/220,120
;  CURRENT FILING DATE:  2002-08-26
;  PRIOR APPLICATION NUMBER: 60/184,777; 60/184,797; 60/184,698; 60/184,770; 60/184,774;
;    60/184,693; 60/184,771; 60/184,813; 60/184,773; 60/184,776;
;    60/184,769; 60/184,768; 60/184,837; 60/184,697; 60/184,841;
;    60/184,772; 60/185,213; 60/185,216; 60/204,863; 60/205,221;
;    60/204,815; 60/203,785; 60/204,821; 60/204,908; 60/204,226;
;    60/204,525; 60/205,285; 60/205,232; 60/205,323; 60/205,287;
;    60/205,324; 60/205,286
;  PRIOR FILING DATE: 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
;    2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
;    2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24;
;    2000-02-24; 2000-02-24; 2000-02-24; 2000-02-24; 2000-05-17;
;    2000-05-17; 2000-05-12; 2000-05-16; 2000-05-16; 2000-05-15;
;    2000-05-16; 2000-05-17; 2000-05-16; 2000-05-17; 2000-05-17;
;    2000-05-17; 2000-05-17
;  NUMBER OF SEQ ID NOS: 422
;  SOFTWARE: PERL Program
; SEQ ID NO 392
;    LENGTH: 83
;    TYPE: PRT
;    ORGANISM: Homo sapiens
;    FEATURE:
;    NAME/KEY: misc_feature
;    OTHER INFORMATION: Incyte ID No. US20040048253A1 LI:035973.1.orf3:2000MAY01
US-10-220-120-392

  Query Match             54.4%;  Score 43;  DB 12;  Length 83;
  Best Local Similarity   66.7%;  Pred. No. 7.6;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIG 13
              || :||||:| |
Db         34 SKAYHLQKSTCG 45
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RESULT 11
US-10-424-599-231574
; Sequence 231574, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 231574
;    LENGTH: 88
;    TYPE: PRT
;    ORGANISM: Glycine max
;    FEATURE:
;    NAME/KEY: unsure
;    LOCATION: (1)..(88)
;    OTHER INFORMATION: unsure at all Xaa locations
;    FEATURE:
;    OTHER INFORMATION: Clone ID: PAT_MRT3847_51132C.1.pep
US-10-424-599-231574

  Query Match             54.4%;  Score 43;  DB 12;  Length 88;
  Best Local Similarity   66.7%;  Pred. No. 8.1;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIG 13
              || :||||:| |
Db         24 SKAYHLQKSTCG 35


RESULT 12
US-09-909-567B-43
; Sequence 43, Application US/09909567B
; Publication No. US20030022257A1
; GENERAL INFORMATION:
;  APPLICANT: Macina, Roberto A.
;  APPLICANT:  Nair, Manoj
;  APPLICANT:  Chen, Seiyu
;  TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes
;  FILE REFERENCE: DEX-0214
;  CURRENT APPLICATION NUMBER: US/09/909,567B
;  CURRENT FILING DATE:  2001-07-20
;  PRIOR APPLICATION NUMBER: 60/219,834
;  PRIOR FILING DATE: 2000-07-21
;  NUMBER OF SEQ ID NOS: 56
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
;    LENGTH: 97
;    TYPE: PRT
;    ORGANISM: Homo sapien
US-09-909-567B-43

  Query Match             54.4%;  Score 43;  DB 10;  Length 97;
  Best Local Similarity   66.7%;  Pred. No. 9;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIG 13
              || :||||:| |
Db         24 SKAYHLQKSTCG 35


RESULT 13
US-10-264-049-4052
; Sequence 4052, Application US/10264049
; Publication No. US20040005579A1
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; GENERAL INFORMATION:
;  APPLICANT: Birse et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PA133P1
;  CURRENT APPLICATION NUMBER: US/10/264,049
;  CURRENT FILING DATE:  2002-10-04
;  PRIOR APPLICATION NUMBER: PCT/US01/18569
;  PRIOR FILING DATE: 2001-06-07
;  PRIOR APPLICATION NUMBER: US 60/209,467
;  PRIOR FILING DATE: 2000-06-07
;  NUMBER OF SEQ ID NOS: 4360
;  SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 4052
;   LENGTH: 102
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-264-049-4052

  Query Match             54.4%;  Score 43;  DB 15;  Length 102;
  Best Local Similarity   66.7%;  Pred. No. 9.4;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIG 13
              || :||||:| |
Db         29 SKAYHLQKSTCG 40


RESULT 14
US-09-925-301-1576
; Sequence 1576, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA106
;  CURRENT APPLICATION NUMBER: US/09/925,301
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05882
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1694
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1576
;   LENGTH: 121
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (108)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (114)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (116)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-301-1576

  Query Match             54.4%;  Score 43;  DB 9;  Length 121;
  Best Local Similarity   66.7%;  Pred. No. 11;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIG 13
              || :||||:| |
Db         29 SKAYHLQKSTCG 40


RESULT 15
US-09-925-300-1786
; Sequence 1786, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
;  APPLICANT: Craig Rosen,
;  APPLICANT:  Steve Ruben
;  TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;  FILE REFERENCE: PA101
;  CURRENT APPLICATION NUMBER: US/09/925,300
;  CURRENT FILING DATE:  2001-08-10
;  PRIOR APPLICATION NUMBER: PCT/US00/05988
;  PRIOR FILING DATE: 2000-03-08
;  PRIOR APPLICATION NUMBER: 60/124,270
;  PRIOR FILING DATE: 1999-03-12
;  NUMBER OF SEQ ID NOS: 1890
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1786
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (2)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (5)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (7)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (9)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (11)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (14)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (38)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (57)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-300-1786

  Query Match             54.4%;  Score 43;  DB 9;  Length 137;
  Best Local Similarity   66.7%;  Pred. No. 13;
  Matches    8;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 SKNFHLQKNTIG 13
              || :||||:| |
Db         64 SKAYHLQKSTCG 75


Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-17
Perfect score: 79
Sequence: 1 GIDIFASKNFHLQKN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	79	100.0	15	14	US-10-354-240-120	Sequence 120, App
2	79	100.0	20	14	US-10-354-240-161	Sequence 161, App
3	79	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
4	73	92.4	80	14	US-10-354-240-1	Sequence 1, Appli
5	73	92.4	105	14	US-10-354-240-2	Sequence 2, Appli
6	73	92.4	134	14	US-10-354-240-3	Sequence 3, Appli
7	53	67.1	15	14	US-10-354-240-121	Sequence 121, App
8	51	64.6	15	14	US-10-354-240-119	Sequence 119, App
9	44	55.7	550	15	US-10-369-493-3540	Sequence 3540, Ap
10	43	54.4	109	12	US-10-424-599-215307	Sequence 215307,
11	40	50.6	65	12	US-10-424-599-147453	Sequence 147453,
12	40	50.6	66	12	US-10-425-114-54201	Sequence 54201, A
13	40	50.6	1021	15	US-10-369-493-21989	Sequence 21989, A
14	39	49.4	280	12	US-10-282-122A-63449	Sequence 63449, A
15	39	49.4	280	12	US-10-282-122A-64267	Sequence 64267, A
16	39	49.4	391	12	US-10-282-122A-52549	Sequence 52549, A
17	38	48.1	148	12	US-10-424-599-261352	Sequence 261352,
18	38	48.1	155	14	US-10-204-887-147	Sequence 147, App
19	38	48.1	265	12	US-10-424-599-253350	Sequence 253350,
20	38	48.1	324	14	US-10-205-219-194	Sequence 194, App
21	38	48.1	435	9	US-09-841-132-504	Sequence 504, App
22	38	48.1	435	15	US-10-312-273-25	Sequence 25, Appl
23	38	48.1	448	15	US-10-289-762-216	Sequence 216, App
24	37	46.8	64	14	US-10-029-386-28572	Sequence 28572, A
25	37	46.8	111	12	US-10-424-599-226680	Sequence 226680,
26	37	46.8	160	14	US-10-017-161-1156	Sequence 1156, Ap
27	37	46.8	160	15	US-10-292-798-976	Sequence 976, App
28	37	46.8	212	12	US-10-282-122A-63038	Sequence 63038, A
29	37	46.8	223	12	US-10-424-599-232666	Sequence 232666,
30	37	46.8	237	12	US-10-363-616-305	Sequence 305, App
31	37	46.8	238	9	US-09-738-626-5982	Sequence 5982, Ap
32	37	46.8	336	14	US-10-032-585-7489	Sequence 7489, Ap
33	37	46.8	356	12	US-10-282-122A-56919	Sequence 56919, A
34	37	46.8	367	12	US-10-210-281-46	Sequence 46, Appl
35	37	46.8	392	12	US-10-210-281-48	Sequence 48, Appl
36	37	46.8	446	12	US-10-282-122A-68910	Sequence 68910, A
37	37	46.8	513	12	US-10-425-114-69529	Sequence 69529, A
38	37	46.8	517	11	US-09-946-290-6	Sequence 6, Appli
39	37	46.8	542	12	US-10-424-599-234091	Sequence 234091,
40	37	46.8	745	12	US-10-282-122A-53256	Sequence 53256, A
41	37	46.8	802	12	US-10-425-114-38402	Sequence 38402, A
42	36.5	46.2	968	14	US-10-101-464A-76	Sequence 76, Appl
43	36	45.6	57	12	US-10-424-599-277249	Sequence 277249,
44	36	45.6	107	15	US-10-108-260A-3686	Sequence 3686, Ap
45	36	45.6	129	14	US-10-172-399-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-10-354-240-120
; Sequence 120, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 120
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 37
US-10-354-240-120

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
||||||||||||||||
Db 1 GIDIFASKNFHLQKN 15

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RESULT 2
US-10-354-240-161
; Sequence 161, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 161
;   LENGTH: 20
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(20)
;   OTHER INFORMATION: Figure 7, Row d
US-10-354-240-161

  Query Match             100.0%;  Score 79;  DB 14;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 8.5e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GIDIFASKNFHLQKN 15
              |||||||||||||||
Db          1 GIDIFASKNFHLQKN 15


RESULT 3
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 79;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 2.7e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GIDIFASKNFHLQKN 15
              |||||||||||||||
Db        235 GIDIFASKNFHLQKN 249


RESULT 4
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match             92.4%;  Score 73;  DB 14;  Length 80;
  Best Local Similarity   100.0%;  Pred. No. 4.1e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQKN 15
              ||||||||||||||
Db         31 IDIFASKNFHLQKN 44


RESULT 5
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-2

  Query Match             92.4%;  Score 73;  DB 14;  Length 105;
  Best Local Similarity   100.0%;  Pred. No. 5.5e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQKN 15
              ||||||||||||||
Db         31 IDIFASKNFHLQKN 44


RESULT 6
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
```

```
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match             92.4%;  Score 73;  DB 14;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 7.1e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQKN 15
              ||||||||||||||
Db         31 IDIFASKNFHLQKN 44


RESULT 7
US-10-354-240-121
; Sequence 121, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 121
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 38
US-10-354-240-121

  Query Match             67.1%;  Score 53;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.02;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 ASKNFHLQKN 15
              ||||||||||
Db          1 ASKNFHLQKN 10


RESULT 8
US-10-354-240-119
; Sequence 119, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 119
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 36
US-10-354-240-119

  Query Match             64.6%;  Score 51;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.045;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GIDIFASKNF 10
              ||||||||||
Db          6 GIDIFASKNF 15


RESULT 9
US-10-369-493-3540
; Sequence 3540, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3540
;   LENGTH: 550
;   TYPE: PRT
;   ORGANISM: Neurospora crassa
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(550)
;   OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3540

  Query Match             55.7%;  Score 44;  DB 15;  Length 550;
  Best Local Similarity   57.1%;  Pred. No. 34;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 IDIFASKNFHLQKN 15
              :|:  |||| || |
Db        464 VDVVRSKNFQLQVN 477


RESULT 10
US-10-424-599-215307
```

; Sequence 215307, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 215307
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_36447C.1.pep
US-10-424-599-215307

Query Match 54.4%; Score 43; DB 12; Length 109;
Best Local Similarity 60.0%; Pred. No. 9.1;
Matches 9; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
| ||| || | | |
Db 33 GHDIFFEKNIHWQLN 47

RESULT 11
US-10-424-599-147453
; Sequence 147453, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 147453
; LENGTH: 65
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_104169C.1.pep
US-10-424-599-147453

Query Match 50.6%; Score 40; DB 12; Length 65;
Best Local Similarity 46.7%; Pred. No. 17;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GIDIFASKNFHLQKN 15
||::| :| :|||
Db 39 GIEMFTHSSFLIQKN 53

RESULT 12
US-10-425-114-54201
; Sequence 54201, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 54201
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73210E04_FLI.pep
US-10-425-114-54201

Query Match 50.6%; Score 40; DB 12; Length 66;
Best Local Similarity 60.0%; Pred. No. 18;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 3 DIFASKNFHL 12
|:| :|||
Db 57 DVFVKQNFHL 66

RESULT 13
US-10-369-493-21989
; Sequence 21989, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 21989
; LENGTH: 1021
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21989

Query Match 50.6%; Score 40; DB 15; Length 1021;
Best Local Similarity 50.0%; Pred. No. 3.3e+02;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 IDIFASKNFHLQKN 15
|::| | ||| :|
Db 115 INLFLSNNFHESEN 128

RESULT 14
US-10-282-122A-63449
; Sequence 63449, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.

```
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63449
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Mycoplasma genitalium
US-10-282-122A-63449

  Query Match             49.4%;  Score 39;  DB 12;  Length 280;
  Best Local Similarity   63.6%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 DIFASKNFHLQ 13
              |:  | |||||
Db        114 DLINSNNFHLQ 124


RESULT 15
US-10-282-122A-64267
; Sequence 64267, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64267
;   LENGTH: 280
;   TYPE: PRT
;   ORGANISM: Mycoplasma pneumoniae
US-10-282-122A-64267

  Query Match             49.4%;  Score 39;  DB 12;  Length 280;
  Best Local Similarity   63.6%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 DIFASKNFHLQ 13
              |:  | |||||
Db        114 DLLHSSNFHLQ 124


Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-16
Perfect score: 85
Sequence: 1 PEFHLVFGNCEGVKI 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	85	100.0	127	3	US-08-467-023-188	Sequence 188, App
2	85	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	41	48.2	838	4	US-09-235-451-2	Sequence 2, Appli
4	41	48.2	838	4	US-09-132-316-3	Sequence 3, Appli
5	41	48.2	838	4	US-09-667-422-9	Sequence 9, Appli
6	41	48.2	839	3	US-09-197-636-2	Sequence 2, Appli
7	41	48.2	839	3	US-09-197-636-4	Sequence 4, Appli
8	41	48.2	839	3	US-09-197-636-8	Sequence 8, Appli
9	41	48.2	839	4	US-09-235-451-34	Sequence 34, Appl
10	41	48.2	839	4	US-09-533-220A-2	Sequence 2, Appli
11	41	48.2	839	4	US-09-667-422-4	Sequence 4, Appli
12	39	45.9	418	2	US-08-494-907-18	Sequence 18, Appl
13	39	45.9	418	5	PCT-US96-10986-18	Sequence 18, Appl
14	38	44.7	91	4	US-08-858-207A-396	Sequence 396, App
15	38	44.7	212	4	US-09-328-352-6684	Sequence 6684, Ap
16	38	44.7	224	4	US-09-134-000C-5452	Sequence 5452, Ap
17	38	44.7	295	3	US-09-150-133-13	Sequence 13, Appl
18	38	44.7	295	3	US-09-150-141-13	Sequence 13, Appl
19	38	44.7	295	3	US-09-374-493-13	Sequence 13, Appl
20	38	44.7	295	3	US-09-374-824-13	Sequence 13, Appl
21	38	44.7	295	3	US-09-374-492-13	Sequence 13, Appl
22	38	44.7	295	4	US-09-785-343-13	Sequence 13, Appl
23	38	44.7	507	1	US-08-457-274A-22	Sequence 22, Appl
24	38	44.7	507	5	PCT-US95-05758-22	Sequence 22, Appl
25	38	44.7	525	3	US-09-273-163-5	Sequence 5, Appli
26	38	44.7	530	4	US-09-252-991A-21963	Sequence 21963, A
27	38	44.7	588	4	US-09-252-991A-25141	Sequence 25141, A
28	38	44.7	627	3	US-09-273-163-4	Sequence 4, Appli
29	38	44.7	660	3	US-09-273-163-6	Sequence 6, Appli
30	37	43.5	50	4	US-09-205-258-498	Sequence 498, App
31	37	43.5	108	4	US-09-345-236B-29	Sequence 29, Appl
32	37	43.5	178	3	US-08-478-316-29	Sequence 29, Appl
33	37	43.5	178	4	US-09-019-793A-29	Sequence 29, Appl
34	37	43.5	347	4	US-09-489-039A-8605	Sequence 8605, Ap
35	37	43.5	507	4	US-09-205-258-492	Sequence 492, App
36	37	43.5	524	4	US-09-489-039A-12626	Sequence 12626, A
37	37	43.5	750	3	US-08-202-841A-2	Sequence 2, Appli
38	36	42.4	85	3	US-08-855-531D-9	Sequence 9, Appli
39	36	42.4	85	3	US-08-855-526B-9	Sequence 9, Appli
40	36	42.4	137	1	US-08-131-625B-9	Sequence 9, Appli
41	36	42.4	178	2	US-08-799-464A-7	Sequence 7, Appli
42	36	42.4	178	3	US-08-686-968C-8	Sequence 8, Appli
43	36	42.4	178	3	US-08-478-316-24	Sequence 24, Appl
44	36	42.4	178	3	US-08-478-316-25	Sequence 25, Appl
45	36	42.4	178	3	US-08-478-316-26	Sequence 26, Appl

ALIGNMENTS

```
RESULT 1
US-08-467-023-188
; Sequence 188, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  188:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  127 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-188

Query Match 100.0%; Score 85; DB 3; Length 127;
Best Local Similarity 100.0%; Pred. No. 8.9e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 PEFHLVFGNCEGVKI 15
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Db         52 PEFHLVFGNCEGVKI 66
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RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 85; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 PEFHLVFGNCEGVKI 15
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Db        205 PEFHLVFGNCEGVKI 219
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RESULT 3
US-09-235-451-2
; Sequence 2, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 838
; TYPE: PRT
; ORGANISM: R. rattus
US-09-235-451-2

Query Match 48.2%; Score 41; DB 4; Length 838;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          8 GNCEGVK 14
              ||||||| 
Db        764 GNCEGVK 770
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RESULT 4
US-09-132-316-3
; Sequence 3, Application US/09132316B
; Patent No. 6444440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110000
; CURRENT APPLICATION NUMBER: US/09/132,316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-132-316-3

Query Match 48.2%; Score 41; DB 4; Length 838;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          8 GNCEGVK 14
              ||||||| 
Db        764 GNCEGVK 770
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RESULT 5
US-09-667-422-9
; Sequence 9, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krause, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR

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;  CURRENT APPLICATION NUMBER: US/09/667,422
;  CURRENT FILING DATE:  2001-06-07
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
;   LENGTH: 838
;   TYPE: PRT
;   ORGANISM: Rattus sp.
;  PUBLICATION INFORMATION:
;   AUTHORS: Caterina, Michael J.
;   AUTHORS: Schumacher, Mark A.
;   AUTHORS: Tominaga, Makoto
;   AUTHORS: Rosen, Tobias A.
;   TITLE: The capsaicin receptor: a heat-activated ion channel in
;   TITLE: the pain pathway
;   JOURNAL: Nature
;   VOLUME: 389
;   PAGES: 816-824
;   DATE: 1997
US-09-667-422-9

  Query Match             48.2%;  Score 41;  DB 4;  Length 838;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
              |||||||
Db        764 GNCEGVK 770


RESULT 6
US-09-197-636-2
; Sequence 2, Application US/09197636
; Patent No. 6239267
;  GENERAL INFORMATION:
;    APPLICANT:  DUCKWORTH, DAVID
;    APPLICANT:  HAYES, PHILIP
;    APPLICANT:  MEADOWS, HELEN
;    APPLICANT:  DAVIS, JOHN
;    TITLE OF INVENTION:  NOVEL COMPOUNDS
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ratner & Prestia
;      STREET:  P.O. Box 980
;      CITY:  Valley Forge
;      STATE:  PA
;      COUNTRY:  US
;      ZIP:  19482-0980
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/197,636
;      FILING DATE:  23-NOV-1998
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  UK 9805137.8
;      FILING DATE:  12-MAR-1998
;      APPLICATION NUMBER:  UK 9815791.0
;      FILING DATE:  21-JUL-1998
;      APPLICATION NUMBER:  UK 9819278.4
;      FILING DATE:  03-SEP-1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Prestia, Paul F
;      REGISTRATION NUMBER:  23,031
;      REFERENCE/DOCKET NUMBER:  GP-30075
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  601-407-0700
;      TELEFAX:  610-407-0701
;      TELEX:  846169
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  839 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-197-636-2

  Query Match             48.2%;  Score 41;  DB 3;  Length 839;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
              |||||||
Db        765 GNCEGVK 771


RESULT 7
US-09-197-636-4
; Sequence 4, Application US/09197636
; Patent No. 6239267
;  GENERAL INFORMATION:
;    APPLICANT:  DUCKWORTH, DAVID
;    APPLICANT:  HAYES, PHILIP
;    APPLICANT:  MEADOWS, HELEN
;    APPLICANT:  DAVIS, JOHN
;    TITLE OF INVENTION:  NOVEL COMPOUNDS
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ratner & Prestia
;      STREET:  P.O. Box 980
;      CITY:  Valley Forge
;      STATE:  PA
;      COUNTRY:  US
;      ZIP:  19482-0980
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/197,636
;      FILING DATE:  23-NOV-1998
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  UK 9805137.8
;      FILING DATE:  12-MAR-1998
;      APPLICATION NUMBER:  UK 9815791.0
;      FILING DATE:  21-JUL-1998
;      APPLICATION NUMBER:  UK 9819278.4
;      FILING DATE:  03-SEP-1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Prestia, Paul F
;      REGISTRATION NUMBER:  23,031
;      REFERENCE/DOCKET NUMBER:  GP-30075
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  601-407-0700
;      TELEFAX:  610-407-0701
;      TELEX:  846169
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  839 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-197-636-4

  Query Match             48.2%;  Score 41;  DB 3;  Length 839;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
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                ||||||
Db        765 GNCEGVK 771


RESULT 8
US-09-197-636-8
; Sequence 8, Application US/09197636
; Patent No. 6239267
;  GENERAL INFORMATION:
;    APPLICANT:  DUCKWORTH, DAVID
;    APPLICANT:  HAYES, PHILIP
;    APPLICANT:  MEADOWS, HELEN
;    APPLICANT:  DAVIS, JOHN
;    TITLE OF INVENTION:  NOVEL COMPOUNDS
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Ratner & Prestia
;      STREET:  P.O. Box 980
;      CITY:  Valley Forge
;      STATE:  PA
;      COUNTRY:  US
;      ZIP:  19482-0980
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/197,636
;      FILING DATE:  23-NOV-1998
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  UK 9805137.8
;      FILING DATE:  12-MAR-1998
;      APPLICATION NUMBER:  UK 9815791.0
;      FILING DATE:  21-JUL-1998
;      APPLICATION NUMBER:  UK 9819278.4
;      FILING DATE:  03-SEP-1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Prestia, Paul F
;      REGISTRATION NUMBER:  23,031
;      REFERENCE/DOCKET NUMBER:  GP-30075
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  601-407-0700
;      TELEFAX:  610-407-0701
;      TELEX:  846169
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  839 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-197-636-8

  Query Match             48.2%;  Score 41;  DB 3;  Length 839;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
              |||||||
Db        765 GNCEGVK 771


RESULT 9
US-09-235-451-34
; Sequence 34, Application US/09235451
; GENERAL INFORMATION:
;  APPLICANT: Julius, David J.
;  APPLICANT:  Caterina, Michael J.
;  APPLICANT:  Brake, Anthony J.
;  TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
;  TITLE OF INVENTION:  CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
;  TITLE OF INVENTION:  POLYPEPTIDES AND USES THEREOF
;  FILE REFERENCE: 9076/084CIP
;  CURRENT APPLICATION NUMBER: US/09/235,451
;  CURRENT FILING DATE:  1999-01-22
;  PRIOR APPLICATION NUMBER: 60/072,151
;  PRIOR FILING DATE: 1998-01-22
;  PRIOR APPLICATION NUMBER: 08/915,461
;  PRIOR FILING DATE: 1997-08-20
;  NUMBER OF SEQ ID NOS: 48
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 34
;   LENGTH: 839
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-235-451-34

  Query Match             48.2%;  Score 41;  DB 4;  Length 839;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
              |||||||
Db        765 GNCEGVK 771


RESULT 10
US-09-533-220A-2
; Sequence 2, Application US/09533220A
; Patent No. 6406908
; GENERAL INFORMATION:
;  APPLICANT: Mcintyre, Peter
;  APPLICANT:  James, Iain Fraser
;  TITLE OF INVENTION: Human Vanilloid Receptor
;  FILE REFERENCE: 4-30875A
;  CURRENT APPLICATION NUMBER: US/09/533,220A
;  CURRENT FILING DATE:  2000-03-23
;  PRIOR APPLICATION NUMBER: UNITED KINGDOM 9907097.1
;  PRIOR FILING DATE: 1999-03-26
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn Ver. 1.30
; SEQ ID NO 2
;   LENGTH: 839
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-533-220A-2

  Query Match             48.2%;  Score 41;  DB 4;  Length 839;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
              |||||||
Db        765 GNCEGVK 771


RESULT 11
US-09-667-422-4
; Sequence 4, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
;  APPLICANT: Cortright, Daniel
;  APPLICANT:  Krause, James
;  TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
;  FILE REFERENCE: HCR
;  CURRENT APPLICATION NUMBER: US/09/667,422
;  CURRENT FILING DATE:  2001-06-07
;  NUMBER OF SEQ ID NOS: 13
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
;   LENGTH: 839
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
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;   NAME/KEY: TRANSMEM
;   LOCATION: (434)..(455)
;   OTHER INFORMATION: TM1
;   NAME/KEY: TRANSMEM
;   LOCATION: (480)..(495)
;   OTHER INFORMATION: TM2
;   NAME/KEY: TRANSMEM
;   LOCATION: (510)..(530)
;   OTHER INFORMATION: TM3
;   NAME/KEY: TRANSMEM
;   LOCATION: (543)..(569)
;   OTHER INFORMATION: TM4
;   NAME/KEY: TRANSMEM
;   LOCATION: (577)..(596)
;   OTHER INFORMATION: TM5
;   NAME/KEY: TRANSMEM
;   LOCATION: (656)..(684)
;   OTHER INFORMATION: TM6
US-09-667-422-4

  Query Match             48.2%;  Score 41;  DB 4;  Length 839;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          8 GNCEGVK 14
              |||||||
Db        765 GNCEGVK 771


RESULT 12
US-08-494-907-18
; Sequence 18, Application US/08494907
; Patent No. 5955298
;  GENERAL INFORMATION:
;    APPLICANT:  Thomashow, Linda S
;    APPLICANT:  Bangera, Mahalaxmi
;    APPLICANT:  Weller, David M
;    APPLICANT:  Cook, R. James
;    TITLE OF INVENTION:  Sequences for Production of
;    TITLE OF INVENTION:  2,4-Diacetylphloroglucinol and Methods
;    NUMBER OF SEQUENCES:  20
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Margaret A. Connor, USDA-ARS
;      STREET:  800 Buchanan Street
;      CITY:  Albany
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94710
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/494,907
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Connor, Margaret A
;      REGISTRATION NUMBER:  30043
;      REFERENCE/DOCKET NUMBER:  0009.95
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (510) 559-6067
;      TELEFAX:  (510) 559-5777
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  418 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-494-907-18

  Query Match             45.9%;  Score 39;  DB 2;  Length 418;
  Best Local Similarity   54.5%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 EFHLVFGNCEG 12
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Db         88 KFFKIFGGCEG 98


RESULT 13
PCT-US96-10986-18
; Sequence 18, Application PC/TUS9610986
;  GENERAL INFORMATION:
;    TITLE OF INVENTION:  Sequences for Production of
;    TITLE OF INVENTION:  2,4-Diacetylphloroglucinol and Methods
;    NUMBER OF SEQUENCES:  20
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Stephan A. Pendorf, DOMINIK & STEIN
;      STREET:  600 N. West Shore Boulevard, Suite 1000
;      CITY:  Tampa
;      STATE:  FL
;      COUNTRY:  USA
;      ZIP:  33609
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US96/10986
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Pendorf, Stephan A.
;      REGISTRATION NUMBER:  32665
;      REFERENCE/DOCKET NUMBER:  A700.320
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (813) 289-2966
;      TELEFAX:  (813)289-2967
;  INFORMATION FOR SEQ ID NO:  18:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  418 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US96-10986-18

  Query Match             45.9%;  Score 39;  DB 5;  Length 418;
  Best Local Similarity   54.5%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 EFHLVFGNCEG 12
              :|  :|| |||
Db         88 KFFKIFGGCEG 98


RESULT 14
US-08-858-207A-396
; Sequence 396, Application US/08858207A
; Patent No. 6348328
;  GENERAL INFORMATION:
;    APPLICANT:  Black, Michael
;    APPLICANT:  Hodgson, John
;    APPLICANT:  Knowles, David
;    APPLICANT:  Nicholas, Richard
;    APPLICANT:  Stodola, Robert
;    TITLE OF INVENTION:  No. 6348328el Compounds
;    NUMBER OF SEQUENCES:  552
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SmithKline Beecham Corporation
;      STREET:  709 Swedeland Road
;      CITY:  King of Prussia
;      STATE:  PA
;      COUNTRY:  USA
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;       ZIP:  19406-0939
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Diskette
;       COMPUTER:  IBM Compatible
;       OPERATING SYSTEM:  DOS
;       SOFTWARE:  FastSEQ for Windows Version 2.0
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/858,207A
;       FILING DATE:  09-MAY-1997
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  60/017670
;       FILING DATE:  14-MAY-1996
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Gimmi, Edward R
;       REGISTRATION NUMBER:  38,891
;       REFERENCE/DOCKET NUMBER:  P50475
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  610-270-4478
;       TELEFAX:  610-270-5090
;       TELEX:
;   INFORMATION FOR SEQ ID NO:  396:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  91 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  No. 6348328e
US-08-858-207A-396

  Query Match             44.7%;  Score 38;  DB 4;  Length 91;
  Best Local Similarity   77.8%;  Pred. No. 36;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          6 VFGNCEGVK 14
              |||||| :|
Db         70 VFGNCEILK 78


RESULT 15
US-09-328-352-6684
; Sequence 6684, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6684
;   LENGTH: 212
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-6684

  Query Match             44.7%;  Score 38;  DB 4;  Length 212;
  Best Local Similarity   55.6%;  Pred. No. 89;
  Matches    5;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 FHLVFGNCE 11
              :||:  |||
Db        106 YHLIINNCE 114


Search completed: April 19, 2004, 12:38:21
Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-16
Perfect score: 85
Sequence: 1 PEFHLVFGNCEGVKI 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	85	100.0	15	14	US-10-354-240-114	Sequence 114, App
2	85	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	61	71.8	15	14	US-10-354-240-113	Sequence 113, App
4	57	67.1	492	12	US-10-424-599-284649	Sequence 284649,
5	55	64.7	15	14	US-10-354-240-115	Sequence 115, App
6	44	51.8	314	12	US-10-425-114-43341	Sequence 43341, A
7	44	51.8	393	12	US-10-425-114-48708	Sequence 48708, A
8	44	51.8	539	12	US-10-424-599-176466	Sequence 176466,
9	43	50.6	531	12	US-10-425-114-45931	Sequence 45931, A
10	43	50.6	631	12	US-10-424-599-213820	Sequence 213820,
11	43	50.6	698	12	US-10-425-114-50101	Sequence 50101, A
12	43	50.6	812	12	US-10-424-599-247742	Sequence 247742,
13	42	49.4	50	10	US-09-899-495-62	Sequence 62, Appl
14	42	49.4	72	12	US-10-424-599-247259	Sequence 247259,
15	42	49.4	358	12	US-10-425-114-69575	Sequence 69575, A
16	42	49.4	496	12	US-10-425-114-66151	Sequence 66151, A
17	42	49.4	573	12	US-10-425-114-43413	Sequence 43413, A
18	41.5	48.8	42	12	US-10-424-599-261743	Sequence 261743,
19	41	48.2	88	9	US-09-925-299-949	Sequence 949, App
20	41	48.2	88	10	US-09-925-299-949	Sequence 949, App
21	41	48.2	88	14	US-10-106-698-5763	Sequence 5763, Ap
22	41	48.2	127	12	US-10-276-774-2081	Sequence 2081, Ap
23	41	48.2	470	12	US-10-332-447-11	Sequence 11, Appl
24	41	48.2	778	15	US-10-342-844-72	Sequence 72, Appl
25	41	48.2	829	9	US-09-764-367A-7	Sequence 7, Appli
26	41	48.2	838	10	US-09-978-303-2	Sequence 2, Appli
27	41	48.2	838	14	US-10-137-316-3	Sequence 3, Appli
28	41	48.2	838	15	US-10-342-844-38	Sequence 38, Appl
29	41	48.2	838	15	US-10-342-844-40	Sequence 40, Appl
30	41	48.2	839	9	US-09-824-258-2	Sequence 2, Appli
31	41	48.2	839	9	US-09-824-258-4	Sequence 4, Appli
32	41	48.2	839	9	US-09-824-258-8	Sequence 8, Appli
33	41	48.2	839	10	US-09-978-303-34	Sequence 34, Appl
34	41	48.2	839	14	US-10-128-853-2	Sequence 2, Appli
35	41	48.2	839	14	US-10-000-823-5	Sequence 5, Appli
36	41	48.2	839	15	US-10-342-844-42	Sequence 42, Appl
37	41	48.2	839	15	US-10-342-844-48	Sequence 48, Appl
38	41	48.2	839	15	US-10-342-844-50	Sequence 50, Appl
39	41	48.2	839	15	US-10-342-844-74	Sequence 74, Appl
40	41	48.2	839	15	US-10-342-844-82	Sequence 82, Appl
41	41	48.2	873	12	US-10-425-114-65968	Sequence 65968, A
42	41	48.2	1115	14	US-10-260-715-6	Sequence 6, Appli
43	41	48.2	1151	14	US-10-260-715-4	Sequence 4, Appli
44	40.5	47.6	83	12	US-10-282-122A-45386	Sequence 45386, A
45	40.5	47.6	689	12	US-10-282-122A-46993	Sequence 46993, A

ALIGNMENTS

RESULT 1
US-10-354-240-114
; Sequence 114, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 114
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 31
US-10-354-240-114

Query Match 100.0%; Score 85; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEFHLVFGNCEGVKI 15
||||||||||||||| |
Db 1 PEFHLVFGNCEGVKI 15

```
RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 85;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 4.7e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNCEGVKI 15
              |||||||||||||||
Db        205 PEFHLVFGNCEGVKI 219


RESULT 3
US-10-354-240-113
; Sequence 113, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 113
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 30
US-10-354-240-113

  Query Match             71.8%;  Score 61;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0015;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNC 10
              ||||||||||
Db          6 PEFHLVFGNC 15


RESULT 4
US-10-424-599-284649
; Sequence 284649, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 284649
;   LENGTH: 492
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_99063C.1.pep
US-10-424-599-284649

  Query Match             67.1%;  Score 57;  DB 12;  Length 492;
  Best Local Similarity   53.3%;  Pred. No. 0.27;
  Matches    8;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNCEGVKI 15
              |:||::|  |:|| |
Db        249 PQFHMIFNGCQGVLI 263


RESULT 5
US-10-354-240-115
; Sequence 115, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 115
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 32
US-10-354-240-115

  Query Match             64.7%;  Score 55;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.016;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 VFGNCEGVKI 15
              ||||||||||
Db          1 VFGNCEGVKI 10


RESULT 6
US-10-425-114-43341
; Sequence 43341, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 43341
;   LENGTH: 314
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3067-033-B6_FLI.pep
US-10-425-114-43341

  Query Match             51.8%;  Score 44;  DB 12;  Length 314;
  Best Local Similarity   58.3%;  Pred. No. 29;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          4 HLVFGNCEGVKI 15
              || | ||:|| :
Db         74 HLKFDNCQGVMV 85


RESULT 7
US-10-425-114-48708
; Sequence 48708, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 48708
;   LENGTH: 393
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700725705_FLI.pep
US-10-425-114-48708

  Query Match             51.8%;  Score 44;  DB 12;  Length 393;
  Best Local Similarity   46.7%;  Pred. No. 36;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNCEGVKI 15
              |: || | :| || :
Db        151 PQCHLKFDSCNGVMV 165


RESULT 8
US-10-424-599-176466
; Sequence 176466, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 176466
;   LENGTH: 539
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(539)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_130367C.1.pep
US-10-424-599-176466

  Query Match             51.8%;  Score 44;  DB 12;  Length 539;
  Best Local Similarity   46.7%;  Pred. No. 50;
  Matches    7;  Conservative    3;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNCEGVKI 15
              |: || | :| || :
Db        297 PQCHLKFDSCNGVMV 311


RESULT 9
US-10-425-114-45931
; Sequence 45931, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 45931
;   LENGTH: 531
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700790454_FLI.pep
US-10-425-114-45931

  Query Match             50.6%;  Score 43;  DB 12;  Length 531;
  Best Local Similarity   53.8%;  Pred. No. 74;
  Matches    7;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 EFHLVFGNCEGVK 14
              :| |: |||| |
Db         71 QFSLLLGNCEAAK 83


RESULT 10
US-10-424-599-213820
; Sequence 213820, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
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;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 213820
;   LENGTH: 631
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(631)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_35104C.1.pep
US-10-424-599-213820

  Query Match             50.6%;  Score 43;  DB 12;  Length 631;
  Best Local Similarity   53.8%;  Pred. No. 88;
  Matches    7;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 EFHLVFGNCEGVK 14
              :| |: ||||  |
Db        171 QFSLLLGNCEAAK 183


RESULT 11
US-10-425-114-50101
; Sequence 50101, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 50101
;   LENGTH: 698
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700557225_FLI.pep
US-10-425-114-50101

  Query Match             50.6%;  Score 43;  DB 12;  Length 698;
  Best Local Similarity   58.3%;  Pred. No. 98;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNCEG 12
              |:|| :| || |
Db        101 PQFHSLFINCGG 112


RESULT 12
US-10-424-599-247742
; Sequence 247742, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247742
;   LENGTH: 812
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(812)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_65740C.1.pep
US-10-424-599-247742

  Query Match             50.6%;  Score 43;  DB 12;  Length 812;
  Best Local Similarity   58.3%;  Pred. No. 1.1e+02;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNCEG 12
              |:|| :| || |
Db        215 PQFHSLFINCGG 226


RESULT 13
US-09-899-495-62
; Sequence 62, Application US/09899495
; Publication No. US20030088060A1
; GENERAL INFORMATION:
;  APPLICANT: Benjamin, Christopher W.
;  APPLICANT:  Roberts, Steven L.
;  APPLICANT:  Karnovsky, Alla M.
;  APPLICANT:  Ruble, Cara L.
;  TITLE OF INVENTION: Human Ion Channels
;  FILE REFERENCE: 00188US1
;  CURRENT APPLICATION NUMBER: US/09/899,495
;  CURRENT FILING DATE:  2001-07-05
;  PRIOR APPLICATION NUMBER: 60/215,815
;  PRIOR FILING DATE: 2000-07-05
;  PRIOR APPLICATION NUMBER: 60/216,481
;  PRIOR FILING DATE: 2000-07-06
;  PRIOR APPLICATION NUMBER: 60/216,479
;  PRIOR FILING DATE: 2000-07-06
;  PRIOR APPLICATION NUMBER: 60/216,482
;  PRIOR FILING DATE: 2000-07-06
;  PRIOR APPLICATION NUMBER: 60/217,096
;  PRIOR FILING DATE: 2000-07-10
;  NUMBER OF SEQ ID NOS: 125
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 62
;   LENGTH: 50
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-899-495-62

  Query Match             49.4%;  Score 42;  DB 10;  Length 50;
  Best Local Similarity   70.0%;  Pred. No. 9.2;
  Matches    7;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PEFHLVFGNC 10
              |||| | | |
Db         27 PEFHEVLGTC 36


RESULT 14
US-10-424-599-247259
; Sequence 247259, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
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;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 247259
;   LENGTH: 72
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_65304C.1.pep
US-10-424-599-247259

  Query Match             49.4%;  Score 42;  DB 12;  Length 72;
  Best Local Similarity   66.7%;  Pred. No. 13;
  Matches    8;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          3 FHLVFGNCEGVK 14
              ||   |  |||||
Db         49 FHFFFFFCEGVK 60


RESULT 15
US-10-425-114-69575
; Sequence 69575, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69575
;   LENGTH: 358
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: UC-ZMFLB73080G10_FLI.pep
US-10-425-114-69575

  Query Match             49.4%;  Score 42;  DB 12;  Length 358;
  Best Local Similarity   58.3%;  Pred. No. 72;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          4 HLVFGNCEGVKI 15
              || |  :|||| :
Db        115 HLKFDSCEGVMV 126


Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-15
Perfect score: 87
Sequence: 1 PASWKNNRIWLQFAK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	87	100.0	128	3	US-08-467-023-187	Sequence 187, App
2	87	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	47	54.0	178	4	US-09-489-039A-10994	Sequence 10994, A
4	44	50.6	205	4	US-09-252-991A-16946	Sequence 16946, A
5	43	49.4	333	4	US-09-543-681A-4411	Sequence 4411, Ap
6	43	49.4	376	4	US-09-252-991A-26270	Sequence 26270, A
7	43	49.4	423	1	US-07-649-591B-3	Sequence 3, Appli
8	43	49.4	423	1	US-08-277-540-3	Sequence 3, Appli
9	43	49.4	423	1	US-08-430-787A-3	Sequence 3, Appli
10	43	49.4	423	2	US-08-869-057-2	Sequence 2, Appli
11	43	49.4	423	4	US-09-813-133A-4	Sequence 4, Appli
12	42	48.3	459	3	US-09-097-889-22	Sequence 22, Appl
13	42	48.3	459	4	US-09-098-079-22	Sequence 22, Appl
14	41	47.1	758	4	US-09-134-001C-4588	Sequence 4588, Ap
15	39	44.8	67	4	US-09-107-532A-5736	Sequence 5736, Ap
16	39	44.8	271	4	US-09-198-452A-58	Sequence 58, Appl
17	39	44.8	357	1	US-08-356-405-2	Sequence 2, Appli
18	39	44.8	357	1	US-08-356-405-9	Sequence 9, Appli
19	39	44.8	357	2	US-08-031-538-4	Sequence 4, Appli
20	39	44.8	415	4	US-09-489-039A-13315	Sequence 13315, A
21	39	44.8	418	4	US-09-489-039A-13585	Sequence 13585, A
22	39	44.8	563	3	US-09-360-197-12	Sequence 12, Appl
23	39	44.8	837	4	US-09-252-991A-30713	Sequence 30713, A
24	38.5	44.3	179	4	US-09-690-454-135	Sequence 135, App
25	38.5	44.3	638	4	US-10-164-595-73	Sequence 73, Appl
26	38.5	44.3	645	4	US-10-164-595-40	Sequence 40, Appl
27	38	43.7	106	4	US-09-252-991A-24846	Sequence 24846, A
28	38	43.7	268	3	US-08-965-056-40	Sequence 40, Appl
29	38	43.7	372	4	US-09-973-963-4	Sequence 4, Appli
30	38	43.7	449	4	US-09-252-991A-17261	Sequence 17261, A
31	38	43.7	510	2	US-08-300-584-4	Sequence 4, Appli
32	38	43.7	510	3	US-08-476-123-4	Sequence 4, Appli
33	38	43.7	520	4	US-09-252-991A-17058	Sequence 17058, A
34	38	43.7	629	4	US-09-221-013A-2	Sequence 2, Appli
35	38	43.7	1032	3	US-09-115-954-8	Sequence 8, Appli
36	38	43.7	1044	3	US-09-115-954-2	Sequence 2, Appli
37	38	43.7	1085	4	US-09-734-674-4	Sequence 4, Appli
38	37.5	43.1	271	4	US-09-328-352-5566	Sequence 5566, Ap
39	37	42.5	15	1	US-08-460-874A-26	Sequence 26, Appl
40	37	42.5	15	2	US-08-388-883B-26	Sequence 26, Appl
41	37	42.5	15	3	US-08-462-211A-26	Sequence 26, Appl
42	37	42.5	17	1	US-08-460-874A-22	Sequence 22, Appl
43	37	42.5	17	2	US-08-388-883B-22	Sequence 22, Appl
44	37	42.5	17	3	US-08-462-211A-22	Sequence 22, Appl
45	37	42.5	20	1	US-08-460-874A-21	Sequence 21, Appl

ALIGNMENTS

```
RESULT 1
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  187:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  128 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
```

US-08-467-023-187

Query Match 100.0%; Score 87; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PASWKNNRIWLQFAK 15
||||||||||||||||
Db 95 PASWKNNRIWLQFAK 109

RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 87; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 6.8e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PASWKNNRIWLQFAK 15
||||||||||||||||
Db 130 PASWKNNRIWLQFAK 144

RESULT 3
US-09-489-039A-10994
; Sequence 10994, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 10994
; LENGTH: 178
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10994

Query Match 54.0%; Score 47; DB 4; Length 178;
Best Local Similarity 45.5%; Pred. No. 4.1;
Matches 10; Conservative 1; Mismatches 3; Indels 8; Gaps 1;

Qy 1 PASWKNNR--------IWLQFA 14
||||:| | | |||
Db 13 PASWRNGRTRSATARSAWPQFA 34

RESULT 4
US-09-252-991A-16946
; Sequence 16946, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 16946
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16946

Query Match 50.6%; Score 44; DB 4; Length 205;
Best Local Similarity 38.5%; Pred. No. 14;
Matches 5; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 1 PASWKNNRIWLQF 13
|::| | | |:::
Db 112 PSAWPNRRTWMRW 124

RESULT 5
US-09-543-681A-4411
; Sequence 4411, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABI
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4411

; LENGTH: 333
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4411

Query Match 49.4%; Score 43; DB 4; Length 333;
Best Local Similarity 54.5%; Pred. No. 35;
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 ASWKNNRIWLQ 12
              | |:|::|||:
Db        270 AIWQNDKIWLR 280
```

RESULT 6
US-09-252-991A-26270
; Sequence 26270, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26270
; LENGTH: 376
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26270

Query Match 49.4%; Score 43; DB 4; Length 376;
Best Local Similarity 46.7%; Pred. No. 40;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

```
Qy          1 PASWKNNRIWLQFAK 15
              |: |:  | ||| |:
Db        323 PSLWRRWRRWLQLAR 337
```

RESULT 7
US-07-649-591B-3
; Sequence 3, Application US/07649591B
; Patent No. 5206161
; GENERAL INFORMATION:
; APPLICANT: Dennis Drayna and Daniel Eaton
; TITLE OF INVENTION: No. 5206161el Plasma Carboxypeptidase
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: patin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/649,591B
; FILING DATE: 19910201
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Hasak, Janet E.
; REGISTRATION NUMBER: 28,616
; REFERENCE/DOCKET NUMBER: 689
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/266-1896
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-649-591B-3

Query Match 49.4%; Score 43; DB 1; Length 423;
Best Local Similarity 75.0%; Pred. No. 45;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238
```

RESULT 8
US-08-277-540-3
; Sequence 3, Application US/08277540
; Patent No. 5474901
; GENERAL INFORMATION:
; APPLICANT: Drayna, Dennis T., Eaton, Dan L.
; TITLE OF INVENTION: No. 5474901el Plasma Carboxypeptidase
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: patin (Genentech)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/277,540
; FILING DATE: 19-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/167727
; FILING DATE: 15-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/959944
; FILING DATE: 14-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/649591
; FILING DATE: 01-FEB-91
; ATTORNEY/AGENT INFORMATION:
; NAME: Hasak, Janet E.
; REGISTRATION NUMBER: 28,616
; REFERENCE/DOCKET NUMBER: 689D1C1D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415/225-1896
; TELEFAX: 415/952-9881
; TELEX: 910/371-7168
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-277-540-3

Query Match 49.4%; Score 43; DB 1; Length 423;
Best Local Similarity 75.0%; Pred. No. 45;

```
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238


RESULT 9
US-08-430-787A-3
; Sequence 3, Application US/08430787A
; Patent No. 5593674
;  GENERAL INFORMATION:
;    APPLICANT:  Drayna, Dennis T., Eaton, Dan L.
;    TITLE OF INVENTION:  No. 5593674el Plasma Carboxypeptidase
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Genentech, Inc.
;      STREET:  460 Point San Bruno Blvd
;      CITY:  South San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94080
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  5.25 inch, 360 Kb floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  patin (Genentech)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/430,787A
;      FILING DATE:  27-APR-1995
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/277,540
;      FILING DATE:  19-JUL-1994
;      APPLICATION NUMBER:  08/167727
;      FILING DATE:  15-DEC-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/959944
;      FILING DATE:  14-OCT-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  07/649591
;      FILING DATE:  01-FEB-91
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Hasak, Janet E.
;      REGISTRATION NUMBER:  28,616
;      REFERENCE/DOCKET NUMBER:  689D1C1D1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/225-1896
;      TELEFAX:  415/952-9881
;      TELEX:  910/371-7168
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  423 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
US-08-430-787A-3

  Query Match             49.4%;  Score 43;  DB 1;  Length 423;
  Best Local Similarity   75.0%;  Pred. No. 45;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238


RESULT 10
US-08-869-057-2
; Sequence 2, Application US/08869057
; Patent No. 5985562
;  GENERAL INFORMATION:
;    APPLICANT:  Morser, Michael J
;    APPLICANT:  Nagashima, Mariko
;    TITLE OF INVENTION:  Method of Detecting Thrombotic Disease
;    TITLE OF INVENTION:  Risk
;    NUMBER OF SEQUENCES:  6
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Berlex Biosciences Legal Department
;      STREET:  15049 San Pablo Avenue
;      CITY:  Richmond
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94804-0099
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/869,057
;      FILING DATE:  03-JUN-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Washtien, Wendy L
;      REGISTRATION NUMBER:  36,301
;      REFERENCE/DOCKET NUMBER:  51509AUSM1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  510-262-5411
;      TELEFAX:  510-262-7095
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  423 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    ORIGINAL SOURCE:
;      TISSUE TYPE:  Plasma
;    FEATURE:
;      NAME/KEY:  Peptide
;      LOCATION:  23..401
US-08-869-057-2

  Query Match             49.4%;  Score 43;  DB 2;  Length 423;
  Best Local Similarity   75.0%;  Pred. No. 45;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238


RESULT 11
US-09-813-133A-4
; Sequence 4, Application US/09813133A
; Patent No. 6455294
; GENERAL INFORMATION:
;  APPLICANT: GAN, Weiniu et al
;  TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
;  TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
;  TITLE OF INVENTION:  USES THEREOF
;  FILE REFERENCE: CL001173
;  CURRENT APPLICATION NUMBER: US/09/813,133A
;  CURRENT FILING DATE:  2001-06-06
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 423
;   TYPE: PRT
;   ORGANISM: Human
US-09-813-133A-4

  Query Match             49.4%;  Score 43;  DB 4;  Length 423;
  Best Local Similarity   75.0%;  Pred. No. 45;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;
```

```
Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238


RESULT 12
US-09-097-889-22
; Sequence 22, Application US/09097889
; Patent No. 6218117
;  GENERAL INFORMATION:
;    APPLICANT:  Herrnstadt, Corrina
;    APPLICANT:  Ghosh, Soumitra S.
;    APPLICANT:  Davis, Robert E.
;    TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR IDENTIFYING
;    TITLE OF INVENTION:  AGENTS THAT QUANTATIVELY ALTER DETECTABLE
;    TITLE OF INVENTION:  EXTRAMITOCHONDRIAL DNA:  MITOCHONDRIAL DNA RATIOS
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY LLP
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/097,889
;      FILING DATE:  15-JUN-1998
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Rosenman Ph.D., Stephen J.
;      REGISTRATION NUMBER:  43,058
;      REFERENCE/DOCKET NUMBER:  660088.417
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206),622-4900
;      TELEFAX:  (206) 682-6031
;  INFORMATION FOR SEQ ID NO:  22:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  459 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
US-09-097-889-22

  Query Match             48.3%;  Score 42;  DB 3;  Length 459;
  Best Local Similarity   54.5%;  Pred. No. 71;
  Matches    6;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIWLQF 13
              || || :|| :
Db        189 SWANNLMWLAY 199


RESULT 13
US-09-098-079-22
; Sequence 22, Application US/09098079
; Patent No. 6489095
;  GENERAL INFORMATION:
;    APPLICANT:  Herrnstadt, Corrina
;    APPLICANT:  Ghosh, Soumitra S.
;    APPLICANT:  Clevenger, William
;    APPLICANT:  Fahy, Eoin F.
;    APPLICANT:  Davis, Robert E.
;    TITLE OF INVENTION:  DIAGNOSTIC METHOD BASED ON QUANTIFICATION OF
;    TITLE OF INVENTION:  EXTRAMITOCHONDDRIAL DNA
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  SEED and BERRY LLP
;      STREET:  6300 Columbia Center, 701 Fifth Avenue
;      CITY:  Seattle
;      STATE:  Washington
;      COUNTRY:  USA
;      ZIP:  98104
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/098,079
;      FILING DATE:  15-JUN-1998
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Rosenman Ph.D., Stephen J.
;      REGISTRATION NUMBER:  43,058
;      REFERENCE/DOCKET NUMBER:  660088.416
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (206) 622-4900
;      TELEFAX:  (206) 682-6031
;  INFORMATION FOR SEQ ID NO:  22:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  459 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
US-09-098-079-22

  Query Match             48.3%;  Score 42;  DB 4;  Length 459;
  Best Local Similarity   54.5%;  Pred. No. 71;
  Matches    6;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIWLQF 13
              || || :|| :
Db        189 SWANNLMWLAY 199


RESULT 14
US-09-134-001C-4588
; Sequence 4588, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4588
;   LENGTH: 758
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4588

  Query Match             47.1%;  Score 41;  DB 4;  Length 758;
  Best Local Similarity   87.5%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 ASWKNNRI 9
              | ||||||
Db        444 ADWKNNRI 451


RESULT 15
US-09-107-532A-5736
; Sequence 5736, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
```

```
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 5736:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 67 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...67
;       SEQUENCE DESCRIPTION: SEQ ID NO: 5736:
US-09-107-532A-5736

  Query Match             44.8%;  Score 39;  DB 4;  Length 67;
  Best Local Similarity   50.0%;  Pred. No. 25;
  Matches    6;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PASWKNNRIWLQ 12
              | ||: | |:|:
Db          1 PRSWQENTIYLE 12


Search completed: April 19, 2004, 12:38:20
Job time : 14.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-15
Perfect score: 87
Sequence: 1 PASWKNNRIWLQFAK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
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6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
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8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	87	100.0	15	14	US-10-354-240-99	Sequence 99, Appl
2	87	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	72	82.8	105	14	US-10-354-240-2	Sequence 2, Appli
4	72	82.8	134	14	US-10-354-240-3	Sequence 3, Appli
5	63	72.4	15	14	US-10-354-240-98	Sequence 98, Appl
6	56	64.4	15	14	US-10-354-240-100	Sequence 100, App
7	52	59.8	456	15	US-10-369-493-2208	Sequence 2208, Ap
8	44	50.6	100	12	US-10-424-599-254077	Sequence 254077,
9	44	50.6	444	12	US-10-282-122A-78311	Sequence 78311, A
10	43	49.4	211	9	US-09-925-302-467	Sequence 467, App
11	43	49.4	211	12	US-09-925-302-467	Sequence 467, App
12	43	49.4	333	14	US-10-010-084-3	Sequence 3, Appli
13	43	49.4	354	15	US-10-115-479-66	Sequence 66, Appl
14	43	49.4	423	12	US-10-212-877-4	Sequence 4, Appli
15	43	49.4	423	15	US-10-379-836-2	Sequence 2, Appli
16	43	49.4	423	15	US-10-379-836-17	Sequence 17, Appl
17	43	49.4	428	15	US-10-115-479-68	Sequence 68, Appl
18	43	49.4	428	15	US-10-115-479-70	Sequence 70, Appl
19	42	48.3	102	12	US-10-424-599-195836	Sequence 195836,
20	42	48.3	165	12	US-10-424-599-284690	Sequence 284690,
21	42	48.3	261	15	US-10-334-143-51	Sequence 51, Appl
22	42	48.3	313	12	US-10-282-122A-68835	Sequence 68835, A
23	42	48.3	408	12	US-10-425-114-53135	Sequence 53135, A
24	42	48.3	459	9	US-09-098-079-22	Sequence 22, Appl
25	42	48.3	459	15	US-10-428-487-36	Sequence 36, Appl
26	41	47.1	59	12	US-10-424-599-219200	Sequence 219200,
27	41	47.1	65	11	US-09-864-408A-2290	Sequence 2290, Ap
28	41	47.1	139	15	US-10-264-049-4289	Sequence 4289, Ap
29	41	47.1	194	12	US-10-424-599-215133	Sequence 215133,
30	41	47.1	199	15	US-10-108-260A-3208	Sequence 3208, Ap
31	41	47.1	211	12	US-10-424-599-214553	Sequence 214553,
32	41	47.1	220	12	US-10-424-599-183009	Sequence 183009,
33	41	47.1	369	12	US-10-424-599-238680	Sequence 238680,
34	41	47.1	415	12	US-10-282-122A-53250	Sequence 53250, A
35	41	47.1	458	9	US-09-965-529-2	Sequence 2, Appli
36	41	47.1	458	10	US-09-969-680A-2	Sequence 2, Appli
37	41	47.1	458	12	US-10-112-944-401	Sequence 401, App
38	41	47.1	458	15	US-10-108-260A-3319	Sequence 3319, Ap
39	41	47.1	459	15	US-10-190-115-24	Sequence 24, Appl
40	41	47.1	459	15	US-10-369-072-24	Sequence 24, Appl
41	41	47.1	478	12	US-10-147-493-138	Sequence 138, App
42	41	47.1	478	12	US-10-145-127-138	Sequence 138, App
43	41	47.1	478	12	US-10-160-503-138	Sequence 138, App
44	41	47.1	478	12	US-10-257-174-27	Sequence 27, Appl
45	41	47.1	478	12	US-10-143-118-138	Sequence 138, App

ALIGNMENTS

RESULT 1
US-10-354-240-99
; Sequence 99, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 99
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 16
US-10-354-240-99

Query Match 100.0%; Score 87; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 PASWKNNRIWLQFAK 15
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Db          1 PASWKNNRIWLQFAK 15
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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match           100.0%;  Score 87;  DB 10;  Length 514;
  Best Local Similarity  100.0%;  Pred. No. 8.5e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PASWKNNRIWLQFAK 15
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Db        130 PASWKNNRIWLQFAK 144


RESULT 3
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-2

  Query Match           82.8%;  Score 72;  DB 14;  Length 105;
  Best Local Similarity  100.0%;  Pred. No. 0.0032;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 WKNNRIWLQFAK 15
              ||||||||||||
Db         52 WKNNRIWLQFAK 63


RESULT 4
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match           82.8%;  Score 72;  DB 14;  Length 134;
  Best Local Similarity  100.0%;  Pred. No. 0.004;
  Matches   12;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 WKNNRIWLQFAK 15
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Db         52 WKNNRIWLQFAK 63


RESULT 5
US-10-354-240-98
; Sequence 98, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 98
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 15
US-10-354-240-98

  Query Match           72.4%;  Score 63;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.011;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PASWKNNRIW 10
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Db          6 PASWKNNRIW 15


RESULT 6
US-10-354-240-100
; Sequence 100, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
```

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;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 17
US-10-354-240-100

  Query Match             64.4%;  Score 56;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 NNRIWLQFAK 15
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Db          1 NNRIWLQFAK 10


RESULT 7
US-10-369-493-2208
; Sequence 2208, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 2208
;   LENGTH: 456
;   TYPE: PRT
;   ORGANISM: Schizosaccharomyces pombe
US-10-369-493-2208

  Query Match             59.8%;  Score 52;  DB 15;  Length 456;
  Best Local Similarity   60.0%;  Pred. No. 11;
  Matches    9;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 PASWKNNRIWLQFAK 15
              ||:|||  :||  ||
Db        178 PAAWKNCLVWLPKAK 192


RESULT 8
US-10-424-599-254077
; Sequence 254077, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 254077
;   LENGTH: 100
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_71455C.1.pep
US-10-424-599-254077

  Query Match             50.6%;  Score 44;  DB 12;  Length 100;
  Best Local Similarity   50.0%;  Pred. No. 41;
  Matches    5;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 PASWKNNRIW 10
              |  | ||::|
Db         48 PGQWGNNKVW 57


RESULT 9
US-10-282-122A-78311
; Sequence 78311, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 78311
;   LENGTH: 444
;   TYPE: PRT
;   ORGANISM: Yersinia pestis
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US-10-282-122A-78311

Query Match 50.6%; Score 44; DB 12; Length 444;
Best Local Similarity 60.0%; Pred. No. 1.6e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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Qy          4 WKNNRIWLQF 13
              |:| |:|| |
Db        314 WRNRRMWLLF 323
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RESULT 10
US-09-925-302-467
; Sequence 467, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 467
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-302-467

Query Match 49.4%; Score 43; DB 9; Length 211;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Db         19 SWKKNRMW 26
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RESULT 11
US-09-925-302-467
; Sequence 467, Application US/09925302
; Publication No. US20030064072A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 467
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-302-467

Query Match 49.4%; Score 43; DB 12; Length 211;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

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Qy          3 SWKNNRIW 10
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Db         19 SWKKNRMW 26
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RESULT 12
US-10-010-084-3
; Sequence 3, Application US/10010084
; Publication No. US20030148412A1
; GENERAL INFORMATION:
; APPLICANT: Adachi, Kiichi
; APPLICANT: DeZwaan, Todd M
; APPLICANT: Lo, Sze Chung C
; APPLICANT: Montenegro-Chamorro, Maria V
; APPLICANT: Frank, Sheryl A
; APPLICANT: Darveaux, Blaise A
; APPLICANT: Mahanty, Sanjoy K
; APPLICANT: Heiniger, Ryan W
; APPLICANT: Skalchunes, Amy R
; APPLICANT: Pan, Huaqin
; APPLICANT: Tarpey, Rex
; APPLICANT: Shuster, Jeffrey R
; APPLICANT: Tanzer, Matthew M
; APPLICANT: Hamer, Lisbeth
; TITLE OF INVENTION: METHODS FOR THE IDENTIFICATION OF INHIBITORS OF HISTIDINOL-PHOSPH
; TITLE OF INVENTION: ANTIBIOTICS
; FILE REFERENCE: 2130US
; CURRENT APPLICATION NUMBER: US/10/010,084
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 333
; TYPE: PRT
; ORGANISM: Magnaporthe grisea
US-10-010-084-3

Query Match 49.4%; Score 43; DB 14; Length 333;
Best Local Similarity 50.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

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Qy          1 PASWKNNRIW 10
              |::|  ||:|
Db        209 PSAWSPNRVW 218
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RESULT 13
US-10-115-479-66
; Sequence 66, Application US/10115479
; Publication No. US20040006205A1
; GENERAL INFORMATION:
; APPLICANT: Li, Li
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Liu, Xiaohong
; APPLICANT: Miller, Charles E.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Zhong, Haihong
; APPLICANT: Smithson, Glendda
; APPLICANT: Casman, Stacie J.
; APPLICANT: Boldog, Ferenc L.;
; APPLICANT: Voss, Edward
; APPLICANT: Vernet, Corine
; APPLICANT: MacDougall, John A.
; APPLICANT: Rastelli, Luca
; APPLICANT: Anderson, David W.
; APPLICANT: Zhong, Mei
; APPLICANT: Mezes, Peter S.
; APPLICANT: Furtak, Katarzyna
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Taupier, Raymond J.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Mazur, Ann

```
;  TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
;  FILE REFERENCE: 21402-322 B (Cura 622 PT)
;  CURRENT APPLICATION NUMBER: US/10/115,479
;  CURRENT FILING DATE:  2002-11-18
;  PRIOR APPLICATION NUMBER: 60/281,136
;  PRIOR FILING DATE: 2001-04-03
;  PRIOR APPLICATION NUMBER: 60/281,863
;  PRIOR FILING DATE: 2001-04-05
;  PRIOR APPLICATION NUMBER: 60/281,906
;  PRIOR FILING DATE: 2001-04-05
;  PRIOR APPLICATION NUMBER: 60/282,934
;  PRIOR FILING DATE: 2001-04-10
;  PRIOR APPLICATION NUMBER: 60/283,657
;  PRIOR FILING DATE: 2001-04-13
;  PRIOR APPLICATION NUMBER: 60/283,678
;  PRIOR FILING DATE: 2001-04-13
;  PRIOR APPLICATION NUMBER: 60/283,687
;  PRIOR FILING DATE: 2001-04-13
;  PRIOR APPLICATION NUMBER: 60/283,710
;  PRIOR FILING DATE: 2001-04-13
;  PRIOR APPLICATION NUMBER: 60/284,234
;  PRIOR FILING DATE: 2001-04-17
;  PRIOR APPLICATION NUMBER: 60/285,325
;  PRIOR FILING DATE: 2001-04-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 198
; SEQ ID NO 66
;   LENGTH: 354
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-115-479-66

  Query Match             49.4%;  Score 43;  DB 15;  Length 354;
  Best Local Similarity   75.0%;  Pred. No. 1.9e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIW 10
              ||| ||:|
Db        236 SWKKNRMW 243


RESULT 14
US-10-212-877-4
; Sequence 4, Application US/10212877
; Publication No. US20030017574A1
; GENERAL INFORMATION:
;  APPLICANT: GAN, Weiniu et al
;  TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
;  TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
;  TITLE OF INVENTION:  USES THEREOF
;  FILE REFERENCE: CL001173DIV
;  CURRENT APPLICATION NUMBER: US/10/212,877
;  CURRENT FILING DATE:  2002-08-07
;  PRIOR APPLICATION NUMBER: 09/813,133
;  PRIOR FILING DATE: 2001-03-21
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
;   LENGTH: 423
;   TYPE: PRT
;   ORGANISM: Human
US-10-212-877-4

  Query Match             49.4%;  Score 43;  DB 12;  Length 423;
  Best Local Similarity   75.0%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238


RESULT 15
US-10-379-836-2
; Sequence 2, Application US/10379836
; Publication No. US20030215850A1
; GENERAL INFORMATION:
;  APPLICANT: Bristol-Myers Squibb Company
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND POLYPEPTIDES ENCODING BABOON
;  TITLE OF INVENTION:  TAFI
;  FILE REFERENCE: D0214NP
;  CURRENT APPLICATION NUMBER: US/10/379,836
;  CURRENT FILING DATE:  2003-03-04
;  PRIOR APPLICATION NUMBER: U.S. 60/361,523
;  PRIOR FILING DATE: 2002-03-04
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
;   LENGTH: 423
;   TYPE: PRT
;   ORGANISM: Papio hamadryas
US-10-379-836-2

  Query Match             49.4%;  Score 43;  DB 15;  Length 423;
  Best Local Similarity   75.0%;  Pred. No. 2.2e+02;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 SWKNNRIW 10
              ||| ||:|
Db        231 SWKKNRMW 238


Search completed: April 19, 2004, 11:29:29
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-13
Perfect score: 72
Sequence: 1 SAMLLVPGSKKFVVN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	72	100.0	128	3	US-08-467-023-187	Sequence 187, App
2	72	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	40	55.6	391	4	US-09-428-589-2	Sequence 2, Appli
4	40	55.6	394	4	US-09-198-452A-876	Sequence 876, App
5	39	54.2	66	4	US-09-134-001C-5385	Sequence 5385, Ap
6	38	52.8	111	1	US-08-543-238-8	Sequence 8, Appli
7	38	52.8	111	1	US-08-420-526-8	Sequence 8, Appli
8	37	51.4	220	4	US-09-011-151-13	Sequence 13, Appl
9	37	51.4	400	4	US-09-390-234-19	Sequence 19, Appl
10	37	51.4	400	4	US-09-390-234-22	Sequence 22, Appl
11	37	51.4	400	4	US-09-603-311-19	Sequence 19, Appl
12	37	51.4	400	4	US-09-603-311-22	Sequence 22, Appl
13	37	51.4	425	3	US-09-109-204-31	Sequence 31, Appl
14	37	51.4	425	4	US-09-490-032-31	Sequence 31, Appl
15	37	51.4	455	1	US-08-476-008-3	Sequence 3, Appli
16	37	51.4	455	1	US-08-306-063-3	Sequence 3, Appli
17	37	51.4	455	1	US-08-833-485-3	Sequence 3, Appli
18	37	51.4	455	3	US-09-137-440-3	Sequence 3, Appli
19	37	51.4	455	5	PCT-US91-06148A-3	Sequence 3, Appli
20	36.5	50.7	425	4	US-09-288-339-4	Sequence 4, Appli
21	36	50.0	137	4	US-09-732-210-1267	Sequence 1267, Ap
22	36	50.0	138	4	US-09-148-545-222	Sequence 222, App
23	36	50.0	139	4	US-09-148-545-160	Sequence 160, App
24	36	50.0	893	4	US-09-489-039A-14127	Sequence 14127, A
25	35	48.6	109	4	US-08-858-207A-461	Sequence 461, App
26	35	48.6	129	4	US-09-732-210-1666	Sequence 1666, Ap
27	35	48.6	132	4	US-09-732-210-1687	Sequence 1687, Ap
28	35	48.6	134	4	US-09-107-532A-7255	Sequence 7255, Ap
29	35	48.6	141	4	US-09-621-976-3988	Sequence 3988, Ap
30	35	48.6	151	4	US-09-732-210-1674	Sequence 1674, Ap
31	35	48.6	226	4	US-09-694-094-1	Sequence 1, Appli
32	35	48.6	540	3	US-08-991-677-8	Sequence 8, Appli
33	35	48.6	689	4	US-09-252-991A-32669	Sequence 32669, A
34	34.5	47.9	2052	3	US-09-045-201A-2	Sequence 2, Appli
35	34.5	47.9	2052	4	US-09-619-062-2	Sequence 2, Appli
36	34	47.2	95	3	US-08-946-329A-78	Sequence 78, Appl
37	34	47.2	129	4	US-09-732-210-1665	Sequence 1665, Ap
38	34	47.2	129	4	US-09-732-210-1668	Sequence 1668, Ap
39	34	47.2	145	4	US-09-732-210-579	Sequence 579, App
40	34	47.2	155	4	US-09-800-170-54	Sequence 54, Appl
41	34	47.2	169	4	US-09-144-428-15	Sequence 15, Appl
42	34	47.2	198	4	US-09-800-170-25	Sequence 25, Appl
43	34	47.2	199	4	US-09-800-170-28	Sequence 28, Appl
44	34	47.2	213	4	US-09-252-991A-18915	Sequence 18915, A
45	34	47.2	219	3	US-08-834-776A-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-187

Query Match 100.0%; Score 72; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 7.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 SAMLLVPGSKKFVVN 15
              ||||||||||||||
Db         55 SAMLLVPGSKKFVVN 69
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RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 72; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 3.6e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db         90 SAMLLVPGSKKFVVN 104
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RESULT 3
US-09-428-589-2
; Sequence 2, Application US/09428589
; Patent No. 6403102
; GENERAL INFORMATION:
; APPLICANT: Murdin, Andrew
; TITLE OF INVENTION: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 19721-008
; CURRENT APPLICATION NUMBER: US/09/428,589
; CURRENT FILING DATE: 1999-10-27
; EARLIER APPLICATION NUMBER: 60/106,071
; EARLIER FILING DATE: 1998-10-29
; EARLIER APPLICATION NUMBER: 60/133,202
; EARLIER FILING DATE: 1999-05-07
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 391
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-428-589-2

Query Match 55.6%; Score 40; DB 4; Length 391;
Best Local Similarity 58.3%; Pred. No. 21;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

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Qy          3 MLLVPGSKKFVV 14
              :  :||:|||||
Db        243 LFALPGTKKFVV 254
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RESULT 4
US-09-198-452A-876
; Sequence 876, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, preve
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 876
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-876

Query Match 55.6%; Score 40; DB 4; Length 394;
Best Local Similarity 58.3%; Pred. No. 21;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

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Qy          3 MLLVPGSKKFVV 14
              :  :||:|||||
Db        246 LFALPGTKKFVV 257
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RESULT 5
US-09-134-001C-5385
; Sequence 5385, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14

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;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 5385
;   LENGTH: 66
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-5385

  Query Match             54.2%;  Score 39;  DB 4;  Length 66;
  Best Local Similarity   28.6%;  Pred. No. 4.4;
  Matches    4;  Conservative    8;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 AMLLVPGSKKFVVN 15
              ::  |:|  :|::::|
Db         30 SLYLIPSTKRYIIN 43


RESULT 6
US-08-543-238-8
; Sequence 8, Application US/08543238
; Patent No. 5607919
;  GENERAL INFORMATION:
;    APPLICANT:  Bojsen, Kirsten
;    APPLICANT:  Kragh, Karsten M.
;    APPLICANT:  Mikkelsen, Jorn D.
;    APPLICANT:  Nielsen, Klaus K.
;    TITLE OF INVENTION:  Anti-Microbial Proteins
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sandoz Agro, Inc.
;      STREET:  975 California Avenue
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/543,238
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Marcus-Wyner, Lynn
;      REGISTRATION NUMBER:  34,869
;      REFERENCE/DOCKET NUMBER:  137-1078/MA
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/354-3588
;      TELEFAX:  415/857-1125
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  111 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-543-238-8

  Query Match             52.8%;  Score 38;  DB 1;  Length 111;
  Best Local Similarity   70.0%;  Pred. No. 12;
  Matches    7;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGSK 10
              ||:||:|||:
Db         15 SALLLLPGSR 24


RESULT 7
US-08-420-526-8
; Sequence 8, Application US/08420526
; Patent No. 5608151
;  GENERAL INFORMATION:
;    APPLICANT:  Bojsen, Kirsten
;    APPLICANT:  Kragh, Karsten M.
;    APPLICANT:  Mikkelsen, Jorn D.
;    APPLICANT:  Nielsen, Klaus K.
;    TITLE OF INVENTION:  Anti-Microbial Proteins
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sandoz Agro, Inc.
;      STREET:  975 California Avenue
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/420,526
;      FILING DATE:
;      CLASSIFICATION:  800
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Marcus-Wyner, Lynn
;      REGISTRATION NUMBER:  34,869
;      REFERENCE/DOCKET NUMBER:  137-1078/MA
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415/354-3588
;      TELEFAX:  415/857-1125
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  111 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-420-526-8

  Query Match             52.8%;  Score 38;  DB 1;  Length 111;
  Best Local Similarity   70.0%;  Pred. No. 12;
  Matches    7;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGSK 10
              ||:||:|||:
Db         15 SALLLLPGSR 24


RESULT 8
US-09-011-151-13
; Sequence 13, Application US/09011151
; Patent No. 6380463
; GENERAL INFORMATION:
;  APPLICANT: Jepson, Ian
;  TITLE OF INVENTION: DNA Constructs
;  FILE REFERENCE: PPD 50059/UST
;  CURRENT APPLICATION NUMBER: US/09/011,151
;  CURRENT FILING DATE:  1998-01-29
;  PRIOR APPLICATION NUMBER: PCT/GB96/01883
;  PRIOR FILING DATE: 1996-08-02
;  PRIOR APPLICATION NUMBER: GB 9515941.4
;  PRIOR FILING DATE: 1995-08-03
;  NUMBER OF SEQ ID NOS: 33
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
;   LENGTH: 220
;   TYPE: PRT
;   ORGANISM: Petunia hybrida
US-09-011-151-13

  Query Match             51.4%;  Score 37;  DB 4;  Length 220;
  Best Local Similarity   57.1%;  Pred. No. 39;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 AMLLVPGSKKFVVN 15
              |  ||||||   ::|
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Db        188 AALLVPGSDVTILN 201


RESULT 9
US-09-390-234-19
; Sequence 19, Application US/09390234
; Patent No. 6365390
; GENERAL INFORMATION:
;  APPLICANT: Blum, David L.
;  APPLICANT: Kataeva, Irina
;  APPLICANT: Li, Xin-Liang
;  APPLICANT: Ljungdahl, Lars G.
;  TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
;  FILE REFERENCE: 67-98
;  CURRENT APPLICATION NUMBER: US/09/390,234
;  CURRENT FILING DATE: 1999-09-03
;  EARLIER APPLICATION NUMBER: US 60/099,136
;  EARLIER FILING DATE: 1998-09-04
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;    LENGTH: 400
;    TYPE: PRT
;    ORGANISM: Escherichia coli
US-09-390-234-19

  Query Match             51.4%;  Score 37;  DB 4;  Length 400;
  Best Local Similarity   77.8%;  Pred. No. 76;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGS 9
              |:|:|||||
Db        134 SSMILVPGS 142


RESULT 10
US-09-390-234-22
; Sequence 22, Application US/09390234
; Patent No. 6365390
; GENERAL INFORMATION:
;  APPLICANT: Blum, David L.
;  APPLICANT: Kataeva, Irina
;  APPLICANT: Li, Xin-Liang
;  APPLICANT: Ljungdahl, Lars G.
;  TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
;  FILE REFERENCE: 67-98
;  CURRENT APPLICATION NUMBER: US/09/390,234
;  CURRENT FILING DATE: 1999-09-03
;  EARLIER APPLICATION NUMBER: US 60/099,136
;  EARLIER FILING DATE: 1998-09-04
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
;    LENGTH: 400
;    TYPE: PRT
;    ORGANISM: Escherichia coli
US-09-390-234-22

  Query Match             51.4%;  Score 37;  DB 4;  Length 400;
  Best Local Similarity   77.8%;  Pred. No. 76;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGS 9
              |:|:|||||
Db        134 SSMILVPGS 142


RESULT 11
US-09-603-311-19
; Sequence 19, Application US/09603311
; Patent No. 6602700
; GENERAL INFORMATION:
;  APPLICANT: Li, Xin-Liang
;  APPLICANT: Ljungdahl, Lars G.
;  APPLICANT: Azain, Michael J.
;  APPLICANT: Davies, Edward T.
;  APPLICANT: Shah, Ashit K.
;  APPLICANT: Blum, David L.
;  APPLICANT: Kataeva, Irina
;  TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
;  FILE REFERENCE: 67-98A
;  CURRENT APPLICATION NUMBER: US/09/603,311
;  CURRENT FILING DATE:  2000-06-21
;  PRIOR APPLICATION NUMBER: US 60/099,136
;  PRIOR FILING DATE: 1998-09-04
;  PRIOR APPLICATION NUMBER: 09/390,324
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;    LENGTH: 400
;    TYPE: PRT
;    ORGANISM: Escherichia coli
US-09-603-311-19

  Query Match             51.4%;  Score 37;  DB 4;  Length 400;
  Best Local Similarity   77.8%;  Pred. No. 76;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGS 9
              |:|:|||||
Db        134 SSMILVPGS 142


RESULT 12
US-09-603-311-22
; Sequence 22, Application US/09603311
; Patent No. 6602700
; GENERAL INFORMATION:
;  APPLICANT: Li, Xin-Liang
;  APPLICANT: Ljungdahl, Lars G.
;  APPLICANT: Azain, Michael J.
;  APPLICANT: Davies, Edward T.
;  APPLICANT: Shah, Ashit K.
;  APPLICANT: Blum, David L.
;  APPLICANT: Kataeva, Irina
;  TITLE OF INVENTION: Phenolic Acid Esterases, Coding Sequences and Methods
;  FILE REFERENCE: 67-98A
;  CURRENT APPLICATION NUMBER: US/09/603,311
;  CURRENT FILING DATE:  2000-06-21
;  PRIOR APPLICATION NUMBER: US 60/099,136
;  PRIOR FILING DATE: 1998-09-04
;  PRIOR APPLICATION NUMBER: 09/390,324
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
;    LENGTH: 400
;    TYPE: PRT
;    ORGANISM: Escherichia coli
US-09-603-311-22

  Query Match             51.4%;  Score 37;  DB 4;  Length 400;
  Best Local Similarity   77.8%;  Pred. No. 76;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGS 9
              |:|:|||||
Db        134 SSMILVPGS 142


RESULT 13
US-09-109-204-31
; Sequence 31, Application US/09109204
; Patent No. 6060250
;  GENERAL INFORMATION:
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;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Guegler, Karl J.
;    APPLICANT:  Gorgone, Gina A.
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Patterson, Chandra
;    TITLE OF INVENTION:  HUMAN TRANSFERASES
;    NUMBER OF SEQUENCES:  32
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows
;      SOFTWARE:  Word Perfect 6.1 for Windows/MS-DOS 6.2
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/109,204
;      FILING DATE:  HEREWITH
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Cerrone, Michael C
;      REGISTRATION NUMBER:  39,132
;      REFERENCE/DOCKET NUMBER:  PF-0546 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-855-0572
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  425 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  GI 1050752
US-09-109-204-31

  Query Match             51.4%;  Score 37;  DB 3;  Length 425;
  Best Local Similarity   61.5%;  Pred. No. 82;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 MLLVPGSKKFVVN 15
              :|||||:  || |
Db        379 ILLVPGNSFFVDN 391


RESULT 14
US-09-490-032-31
; Sequence 31, Application US/09490032
; Patent No. 6471959
;  GENERAL INFORMATION:
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Hillman, Jennifer L.
;    APPLICANT:  Guegler, Karl J.
;    APPLICANT:  Gorgone, Gina A.
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Patterson, Chandra
;    TITLE OF INVENTION:  HUMAN TRANSFERASES
;    NUMBER OF SEQUENCES:  32
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  Windows
;      SOFTWARE:  Word Perfect 6.1 for Windows/MS-DOS 6.2
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/490,032
;      FILING DATE:  21-JAN-2000
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  09/109,204
;      FILING DATE:  30-JUNE-1998
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Cerrone, Michael C
;      REGISTRATION NUMBER:  39,132
;      REFERENCE/DOCKET NUMBER:  PF-0546 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-855-0572
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  425 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  GI 1050752
US-09-490-032-31

  Query Match             51.4%;  Score 37;  DB 4;  Length 425;
  Best Local Similarity   61.5%;  Pred. No. 82;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 MLLVPGSKKFVVN 15
              :|||||:  || |
Db        379 ILLVPGNSFFVDN 391


RESULT 15
US-08-476-008-3
; Sequence 3, Application US/08476008
; Patent No. 5627061
;  GENERAL INFORMATION:
;    APPLICANT:  Barry, Gerard F.
;    APPLICANT:  Kishore, Ganesh M.
;    APPLICANT:  Padgette, Stephen R.
;    APPLICANT:  Stallings, William C.
;    TITLE OF INVENTION:  Glyphosate Tolerant
;    TITLE OF INVENTION:  5-Enolpyruvylshikimate-3-Phosphate Synthases
;    NUMBER OF SEQUENCES:  69
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Dennis R. Hoerner, Jr., Monsanto Co. BB4F
;      STREET:  700 Chesterfield Village Parkway
;      CITY:  St. Louis
;      STATE:  Missouri
;      COUNTRY:  USA
;      ZIP:  63198
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/476,008
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
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;       APPLICATION NUMBER:  US 08/306,063
;       FILING DATE:  13-SEP-1994
;       APPLICATION NUMBER:  US 07/749,611
;       FILING DATE:  28-AUG-1991
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/576,537
;       FILING DATE:  31-AUG-1990
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Hoerner Jr., Dennis R.
;       REGISTRATION NUMBER:  30,914
;       REFERENCE/DOCKET NUMBER:  38-21(10660)A
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (314)537-6099
;       TELEFAX:  (314)537-6047
;   INFORMATION FOR SEQ ID NO:  3:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  455 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-476-008-3

  Query Match             51.4%;  Score 37;  DB 1;  Length 455;
  Best Local Similarity   57.1%;  Pred. No. 88;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 AMLLVPGSKKFVVN 15
              | ||||||   ::|
Db        254 AALLVPGSDVTILN 267


Search completed: April 19, 2004, 12:38:19
Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-14
Perfect score: 81
Sequence: 1 VDGIIAAYQNPASWK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	81	100.0	128	3	US-08-467-023-187	Sequence 187, App
2	81	100.0	514	3	US-08-467-023-134	Sequence 134, App
3	44	54.3	13	3	US-08-467-023-183	Sequence 183, App
4	44	54.3	13	3	US-08-467-023-185	Sequence 185, App
5	42	51.9	306	2	US-08-824-707-2	Sequence 2, Appli
6	41	50.6	387	4	US-09-107-532A-5675	Sequence 5675, Ap
7	40	49.4	187	4	US-09-543-681A-5218	Sequence 5218, Ap
8	40	49.4	302	3	US-08-965-600-3	Sequence 3, Appli
9	40	49.4	302	4	US-09-489-506-3	Sequence 3, Appli
10	40	49.4	668	4	US-09-363-708-4	Sequence 4, Appli
11	40	49.4	668	4	US-09-083-587-4	Sequence 4, Appli
12	39	48.1	124	4	US-09-328-352-5487	Sequence 5487, Ap
13	39	48.1	561	2	US-08-679-635A-7	Sequence 7, Appli
14	39	48.1	561	4	US-09-419-163-7	Sequence 7, Appli
15	39	48.1	3461	4	US-09-334-220-2	Sequence 2, Appli
16	38	46.9	113	4	US-09-621-976-7197	Sequence 7197, Ap
17	38	46.9	187	2	US-08-177-109A-62	Sequence 62, Appl
18	38	46.9	187	2	US-08-687-706-62	Sequence 62, Appl
19	38	46.9	187	5	PCT-US96-01314-60	Sequence 60, Appl
20	38	46.9	226	4	US-09-540-236-3787	Sequence 3787, Ap
21	38	46.9	238	4	US-08-771-212A-4	Sequence 4, Appli
22	38	46.9	244	4	US-09-107-532A-5393	Sequence 5393, Ap
23	38	46.9	263	3	US-09-159-106-2	Sequence 2, Appli
24	38	46.9	282	4	US-09-328-352-4791	Sequence 4791, Ap
25	38	46.9	303	3	US-09-159-106-13	Sequence 13, Appl
26	38	46.9	306	3	US-08-842-306B-4	Sequence 4, Appli
27	38	46.9	306	3	US-08-838-973B-4	Sequence 4, Appli
28	38	46.9	328	1	US-08-414-926A-9	Sequence 9, Appli
29	38	46.9	328	2	US-08-926-922-9	Sequence 9, Appli
30	38	46.9	328	3	US-09-253-682-9	Sequence 9, Appli
31	38	46.9	328	3	US-09-527-657-9	Sequence 9, Appli
32	38	46.9	328	4	US-09-892-100-9	Sequence 9, Appli
33	38	46.9	435	3	US-09-159-106-11	Sequence 11, Appl
34	38	46.9	476	4	US-09-675-018B-13	Sequence 13, Appl
35	38	46.9	476	4	US-09-675-018B-14	Sequence 14, Appl
36	38	46.9	567	4	US-09-711-164-374	Sequence 374, App
37	38	46.9	775	4	US-09-662-831-2	Sequence 2, Appli
38	38	46.9	1163	1	US-08-173-497-4	Sequence 4, Appli
39	38	46.9	1163	1	US-08-286-889-4	Sequence 4, Appli
40	38	46.9	1163	1	US-08-485-618-4	Sequence 4, Appli
41	38	46.9	1163	1	US-08-362-652-4	Sequence 4, Appli
42	38	46.9	1163	2	US-08-605-672-4	Sequence 4, Appli
43	38	46.9	1163	2	US-08-482-293A-4	Sequence 4, Appli
44	38	46.9	1163	2	US-08-943-363-4	Sequence 4, Appli
45	38	46.9	1163	2	US-08-476-062A-44	Sequence 44, Appl

ALIGNMENTS

RESULT 1
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-187

Query Match 100.0%; Score 81; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 4.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPASWK 15
||||||||||||||||
Db 85 VDGIIAAYQNPASWK 99

RESULT 2
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 81; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 2.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPASWK 15
||||||||||||||||
Db 120 VDGIIAAYQNPASWK 134

RESULT 3
US-08-467-023-183
; Sequence 183, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 183:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-183

Query Match 54.3%; Score 44; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQ 9
|||||||||
Db 5 VDGIIAAYQ 13

RESULT 4
US-08-467-023-185
; Sequence 185, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

```
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  185:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  13 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-185

  Query Match             54.3%;  Score 44;  DB 3;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQ 9
              |||||||||
Db          5 VDGIIAAYQ 13


RESULT 5
US-08-824-707-2
; Sequence 2, Application US/08824707
; Patent No. 5919688
;  GENERAL INFORMATION:
;    APPLICANT:  Ferrer, Pau
;    APPLICANT:  Diers, Ivan
;    APPLICANT:  Hedegaard, Lisbeth
;    APPLICANT:  Halkier, Torben
;    APPLICANT:  Asenjo, Juan
;    APPLICANT:  Savva, Demitris
;    TITLE OF INVENTION:  No. 5919688el enzyme with beta-1,3-glucanase activity
;    NUMBER OF SEQUENCES:  4
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  No. 5919688o No. 5919688disk of No. 5919688th America, Inc.
;      STREET:  405 Lexington Avenue, Suite 6400
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  10174-6401
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/824,707
;      FILING DATE:  14-April-1997
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Gregg, Valeta A.
;      REGISTRATION NUMBER:  35,127
;      REFERENCE/DOCKET NUMBER:  4290.204-US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-867-0123
;      TELEFAX:  212-878-9655
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  306 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-824-707-2

  Query Match             51.9%;  Score 42;  DB 2;  Length 306;
  Best Local Similarity   46.2%;  Pred. No. 13;
  Matches    6;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 DGIIAAYQNPASW 14
              :||:  ||:|  |
Db        209 NGIMGTYQHPQGW 221


RESULT 6
US-09-107-532A-5675
; Sequence 5675, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;  INFORMATION FOR SEQ ID NO: 5675:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 387 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
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;             NAME/KEY:  misc_feature
;             LOCATION:  (B) LOCATION 1...387
;       SEQUENCE DESCRIPTION: SEQ ID NO: 5675:
US-09-107-532A-5675

  Query Match             50.6%;  Score 41;  DB 4;  Length 387;
  Best Local Similarity   50.0%;  Pred. No. 26;
  Matches    7;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASW 14
              :|| ||| | | : |
Db        178 MDGKIATYTNQSKW 191


RESULT 7
US-09-543-681A-5218
; Sequence 5218, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5218
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-5218

  Query Match             49.4%;  Score 40;  DB 4;  Length 187;
  Best Local Similarity   60.0%;  Pred. No. 16;
  Matches    9;  Conservative    1;  Mismatches    3;  Indels    2;  Gaps    1;

Qy          3 GIIAAYQNP--ASWK 15
              |||| | :|  | ||
Db        142 GIIAYYSDPDKAEWK 156


RESULT 8
US-08-965-600-3
; Sequence 3, Application US/08965600
; Patent No. 6077688
;  GENERAL INFORMATION:
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Shah, Purvi
;    TITLE OF INVENTION:  NEW TRANSDUCIN BETA-1 SUBUNIT
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/965,600
;      FILING DATE:  Herewith
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J,
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0416 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  302 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      LIBRARY:  GenBank
;      CLONE:  1079671
US-08-965-600-3

  Query Match             49.4%;  Score 40;  DB 3;  Length 302;
  Best Local Similarity   53.3%;  Pred. No. 29;
  Matches    8;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              ||| || : ||:  |
Db        123 VDGRIAVWDNPSDCK 137


RESULT 9
US-09-489-506-3
; Sequence 3, Application US/09489506
; Patent No. 6465619
;  GENERAL INFORMATION:
;    APPLICANT:  Bandman, Olga
;    APPLICANT:  Lal, Preeti
;    APPLICANT:  Corley, Neil C.
;    APPLICANT:  Shah, Purvi
;    TITLE OF INVENTION:  NEW TRANSDUCIN BETA-1 SUBUNIT
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Incyte Pharmaceuticals, Inc.
;      STREET:  3174 Porter Drive
;      CITY:  Palo Alto
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94304
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ for Windows Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/489,506
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/965,600
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Billings, Lucy J,
;      REGISTRATION NUMBER:  36,749
;      REFERENCE/DOCKET NUMBER:  PF-0416 US
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  650-855-0555
;      TELEFAX:  650-845-4166
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  302 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
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;      LIBRARY:  GenBank
;      CLONE:  1079671
US-09-489-506-3

  Query Match             49.4%;  Score 40;  DB 4;  Length 302;
  Best Local Similarity   53.3%;  Pred. No. 29;
  Matches    8;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              ||| || : ||:  |
Db        123 VDGRIAVWDNPSDCK 137


RESULT 10
US-09-363-708-4
; Sequence 4, Application US/09363708
; Patent No. 6399747
;  GENERAL INFORMATION:
;    APPLICANT:  Schmandt, et al.
;    TITLE OF INVENTION:  NOVEL SHC BINDING PROTEIN
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  233 South Wacker Drive/6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/363,708
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Clough, David W.
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  01017/34451
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 474-6300
;      TELEFAX:  (312) 474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  668 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;      DESCRIPTION:  /desc = "mouse PAL peptide"
US-09-363-708-4

  Query Match             49.4%;  Score 40;  DB 4;  Length 668;
  Best Local Similarity   63.6%;  Pred. No. 75;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          5 IAAYQNPASWK 15
              :|| : |||||
Db         23 LAAEKEPASWK 33


RESULT 11
US-09-083-587-4
; Sequence 4, Application US/09083587
; Patent No. 6492138
;  GENERAL INFORMATION:
;    APPLICANT:  Schmandt, et al.
;    TITLE OF INVENTION:  NOVEL SHC BINDING PROTEIN
;    NUMBER OF SEQUENCES:  12
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;      STREET:  233 South Wacker Drive/6300 Sears Tower
;      CITY:  Chicago
;      STATE:  Illinois
;      COUNTRY:  United States of America
;      ZIP:  60606-6402
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/083,587
;      FILING DATE:
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Clough, David W.
;      REGISTRATION NUMBER:  36,107
;      REFERENCE/DOCKET NUMBER:  01017/34451
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (312) 474-6300
;      TELEFAX:  (312) 474-0448
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  668 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  not relevant
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;      DESCRIPTION:  /desc = "mouse PAL peptide"
US-09-083-587-4

  Query Match             49.4%;  Score 40;  DB 4;  Length 668;
  Best Local Similarity   63.6%;  Pred. No. 75;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          5 IAAYQNPASWK 15
              :|| : |||||
Db         23 LAAEKEPASWK 33


RESULT 12
US-09-328-352-5487
; Sequence 5487, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5487
;   LENGTH: 124
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-5487

  Query Match             48.1%;  Score 39;  DB 4;  Length 124;
  Best Local Similarity   46.7%;  Pred. No. 15;
  Matches    7;  Conservative    4;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              : |  ||||| |:::
Db         24 ISGFKAAYQNEAAFR 38


RESULT 13
US-08-679-635A-7
; Sequence 7, Application US/08679635A
; Patent No. 5985643
;  GENERAL INFORMATION:
;    APPLICANT:  Tomasz, Alexander
```

```
;    APPLICANT:  Delencastre, Herminia
;    TITLE OF INVENTION:  AUXILIARY GENES AND PROTEINS OF
;    TITLE OF INVENTION:  METHICILLIN RESISTANT BACTERIA AND ANTAGONISTS THEREOF
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  David A. Jackson, Esq.
;      STREET:  411 Hackensack Ave, Continental Plaza, 4th
;      STREET:  Floor
;      CITY:  Hackensack
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07601
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/679,635A
;      FILING DATE:  10-JUL-1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jackson Esq., David A.
;      REGISTRATION NUMBER:  26,742
;      REFERENCE/DOCKET NUMBER:  600-1-141
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-487-5800
;      TELEFAX:  201-343-1684
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  561 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-08-679-635A-7

  Query Match             48.1%;  Score 39;  DB 2;  Length 561;
  Best Local Similarity   54.5%;  Pred. No. 91;
  Matches    6;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          5 IAAYQNPASWK 15
              || |: |  ||
Db        349 IALYETPTGWK 359


RESULT 14
US-09-419-163-7
; Sequence 7, Application US/09419163
; Patent No. 6391614
;  GENERAL INFORMATION:
;    APPLICANT:  Tomasz, Alexander
;    APPLICANT:  Delencastre, Herminia
;    TITLE OF INVENTION:  AUXILIARY GENES AND PROTEINS OF
;    TITLE OF INVENTION:  METHICILLIN RESISTANT BACTERIA AND ANTAGONISTS THEREOF
;    NUMBER OF SEQUENCES:  17
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  David A. Jackson, Esq.
;      STREET:  411 Hackensack Ave, Continental Plaza, 4th
;      STREET:  Floor
;      CITY:  Hackensack
;      STATE:  New Jersey
;      COUNTRY:  USA
;      ZIP:  07601
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/419,163
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/679,635
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jackson Esq., David A.
;      REGISTRATION NUMBER:  26,742
;      REFERENCE/DOCKET NUMBER:  600-1-141
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  201-487-5800
;      TELEFAX:  201-343-1684
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  561 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    HYPOTHETICAL:  NO
US-09-419-163-7

  Query Match             48.1%;  Score 39;  DB 4;  Length 561;
  Best Local Similarity   54.5%;  Pred. No. 91;
  Matches    6;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          5 IAAYQNPASWK 15
              || |: |  ||
Db        349 IALYETPTGWK 359


RESULT 15
US-09-334-220-2
; Sequence 2, Application US/09334220
; Patent No. 6323177
; GENERAL INFORMATION:
;  APPLICANT:  St. Judes Children's Research Hospital
;  APPLICANT:  Curran, Thomas
;  APPLICANT:  D'Arcangelo, Gabriella
;  TITLE OF INVENTION:  INTERACTION OF REELIN WITH VERY LOW
;  TITLE OF INVENTION:  DENSITY LIPOPROTEIN (VLDL) RECEPTOR FOR SCREENING AND
;  TITLE OF INVENTION:  THERAPIES
;  FILE REFERENCE:  2427/0F704
;  CURRENT APPLICATION NUMBER: US/09/334,220
;  CURRENT FILING DATE:  1999-06-16
;  NUMBER OF SEQ ID NOS:  5
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 2
;    LENGTH: 3461
;    TYPE: PRT
;    ORGANISM: Mus musculus
US-09-334-220-2

  Query Match             48.1%;  Score 39;  DB 4;  Length 3461;
  Best Local Similarity   41.7%;  Pred. No. 8.2e+02;
  Matches    5;  Conservative    6;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          4 IIAAYQNPASWK 15
              |:: ::||:||:
Db       1070 IMSDFENPSSWE 1081


Search completed: April 19, 2004, 12:38:20
Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-14
Perfect score: 81
Sequence: 1 VDGIIAAYQNPASWK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	81	100.0	15	14	US-10-354-240-97	Sequence 97, Appl
2	81	100.0	15	14	US-10-354-240-160	Sequence 160, App
3	81	100.0	80	14	US-10-354-240-1	Sequence 1, Appli
4	81	100.0	105	14	US-10-354-240-2	Sequence 2, Appli
5	81	100.0	134	14	US-10-354-240-3	Sequence 3, Appli
6	81	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
7	57	70.4	15	14	US-10-354-240-98	Sequence 98, Appl
8	50	61.7	15	14	US-10-354-240-96	Sequence 96, Appl
9	48	59.3	567	14	US-10-238-075-796	Sequence 796, App
10	43	53.1	226	12	US-10-282-122A-50277	Sequence 50277, A
11	43	53.1	565	15	US-10-369-493-18803	Sequence 18803, A
12	40.5	50.0	544	15	US-10-369-493-5873	Sequence 5873, Ap
13	40	49.4	43	12	US-10-424-599-222397	Sequence 222397,
14	40	49.4	65	12	US-10-424-599-162641	Sequence 162641,
15	40	49.4	158	14	US-10-106-698-6717	Sequence 6717, Ap
16	40	49.4	228	12	US-10-282-122A-61856	Sequence 61856, A
17	40	49.4	230	12	US-10-282-122A-62576	Sequence 62576, A
18	40	49.4	230	12	US-10-282-122A-64798	Sequence 64798, A
19	40	49.4	302	14	US-10-237-381-3	Sequence 3, Appli
20	40	49.4	351	14	US-10-284-740-22	Sequence 22, Appl
21	40	49.4	439	12	US-10-282-122A-73023	Sequence 73023, A
22	40	49.4	472	15	US-10-369-493-23432	Sequence 23432, A
23	40	49.4	668	14	US-10-316-161-4	Sequence 4, Appli
24	40	49.4	6146	14	US-10-156-761-10436	Sequence 10436, A
25	39.5	48.8	573	15	US-10-369-493-5871	Sequence 5871, Ap
26	39.5	48.8	573	15	US-10-369-493-5872	Sequence 5872, Ap
27	39	48.1	58	10	US-09-764-891-4110	Sequence 4110, Ap
28	39	48.1	74	12	US-10-424-599-165200	Sequence 165200,
29	39	48.1	78	12	US-10-424-599-164821	Sequence 164821,
30	39	48.1	124	12	US-10-282-122A-44817	Sequence 44817, A
31	39	48.1	127	12	US-10-282-122A-66003	Sequence 66003, A
32	39	48.1	143	9	US-09-867-550-644	Sequence 644, App
33	39	48.1	149	15	US-10-108-260A-4823	Sequence 4823, Ap
34	39	48.1	274	12	US-10-424-599-244122	Sequence 244122,
35	39	48.1	277	14	US-10-156-761-13955	Sequence 13955, A
36	39	48.1	344	12	US-10-187-975-32	Sequence 32, Appl
37	39	48.1	344	12	US-10-187-975-34	Sequence 34, Appl
38	39	48.1	351	15	US-10-108-260A-2994	Sequence 2994, Ap
39	39	48.1	351	15	US-10-108-260A-3016	Sequence 3016, Ap
40	39	48.1	356	12	US-10-282-122A-76660	Sequence 76660, A
41	39	48.1	360	14	US-10-156-761-14691	Sequence 14691, A
42	39	48.1	387	15	US-10-421-654-66	Sequence 66, Appl
43	39	48.1	451	12	US-10-147-493-126	Sequence 126, App
44	39	48.1	451	12	US-10-145-127-126	Sequence 126, App
45	39	48.1	451	12	US-10-160-503-126	Sequence 126, App

ALIGNMENTS

RESULT 1
US-10-354-240-97
; Sequence 97, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 97
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 14
US-10-354-240-97

Query Match 100.0%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 6.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 VDGIIAAYQNPASWK 15
||||||||||||||||
Db 1 VDGIIAAYQNPASWK 15

```
RESULT 2
US-10-354-240-160
; Sequence 160, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 160
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Figure 7, Row c
US-10-354-240-160

  Query Match             100.0%;  Score 81;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 6.7e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              |||||||||||||||
Db          1 VDGIIAAYQNPASWK 15


RESULT 3
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match             100.0%;  Score 81;  DB 14;  Length 80;
  Best Local Similarity   100.0%;  Pred. No. 3.8e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              |||||||||||||||
Db         66 VDGIIAAYQNPASWK 80


RESULT 4
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-2

  Query Match             100.0%;  Score 81;  DB 14;  Length 105;
  Best Local Similarity   100.0%;  Pred. No. 5.1e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              |||||||||||||||
Db         91 VDGIIAAYQNPASWK 105


RESULT 5
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match             100.0%;  Score 81;  DB 14;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 6.6e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              |||||||||||||||
Db        120 VDGIIAAYQNPASWK 134


RESULT 6
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US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             100.0%;  Score 81;  DB 10;  Length 514;
  Best Local Similarity   100.0%;  Pred. No. 2.7e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASWK 15
              |||||||||||||||
Db        120 VDGIIAAYQNPASWK 134


RESULT 7
US-10-354-240-98
; Sequence 98, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 98
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 15
US-10-354-240-98

  Query Match             70.4%;  Score 57;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0082;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 AAYQNPASWK 15
              ||||||||||
Db          1 AAYQNPASWK 10


RESULT 8
US-10-354-240-96
; Sequence 96, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 96
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 13
US-10-354-240-96

  Query Match             61.7%;  Score 50;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.13;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQN 10
              ||||||||||
Db          6 VDGIIAAYQN 15


RESULT 9
US-10-238-075-796
; Sequence 796, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
;  APPLICANT: I.N.S.E.R.M.
;  TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat
;  TITLE OF INVENTION:  E.coli, and biological uses of these polynucleotides and of thei
;  FILE REFERENCE: BLANDINE
;  CURRENT APPLICATION NUMBER: US/10/238,075
;  CURRENT FILING DATE:  2002-09-10
;  PRIOR APPLICATION NUMBER: 0003145
;  PRIOR FILING DATE: 2000-03-10
;  NUMBER OF SEQ ID NOS: 1576
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 796
;   LENGTH: 567
;   TYPE: PRT
;   ORGANISM: Escherichia coli
US-10-238-075-796

  Query Match             59.3%;  Score 48;  DB 14;  Length 567;
  Best Local Similarity   64.3%;  Pred. No. 12;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPASW 14
              || :||||  || |
Db        430 VDKVIAAYGPPAGW 443


RESULT 10
US-10-282-122A-50277
; Sequence 50277, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
```

```
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50277
;   LENGTH: 226
;   TYPE: PRT
;   ORGANISM: Burkholderia mallei
US-10-282-122A-50277

  Query Match            53.1%;  Score 43;  DB 12;  Length 226;
  Best Local Similarity  61.5%;  Pred. No. 34;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 VDGIIAAYQNPAS 13
              |||::   |||||
Db        200 VDGLLVTGQNPAS 212


RESULT 11
US-10-369-493-18803
; Sequence 18803, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 18803
;   LENGTH: 565
;   TYPE: PRT
;   ORGANISM: Anabaena PCC7120
US-10-369-493-18803

  Query Match            53.1%;  Score 43;  DB 15;  Length 565;
  Best Local Similarity  53.3%;  Pred. No. 87;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    2;  Gaps    1;

Qy          3 GIIAAYQN--PASWK 15
              |::| |||   |  ||
Db         16 GLLATYQNSGPRQWK 30


RESULT 12
US-10-369-493-5873
; Sequence 5873, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5873
;   LENGTH: 544
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-10-369-493-5873

  Query Match            50.0%;  Score 40.5;  DB 15;  Length 544;
  Best Local Similarity  44.4%;  Pred. No. 2.2e+02;
  Matches    8;  Conservative    2;  Mismatches    5;  Indels    3;  Gaps    1;

Qy          1 VDGII---AAYQNPASWK 15
              | |::     ||||  ||
Db        433 VGGMVTNTVTYQNPDGWK 450


RESULT 13
US-10-424-599-222397
; Sequence 222397, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 222397
;   LENGTH: 43
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(43)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_42854C.1.pep
US-10-424-599-222397

  Query Match            49.4%;  Score 40;  DB 12;  Length 43;
  Best Local Similarity  60.0%;  Pred. No. 19;
  Matches    6;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;
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Qy          5 IAAYQNPASW 14
              | || ||: |
Db          7 ITAYSNPSGW 16


RESULT 14
US-10-424-599-162641
; Sequence 162641, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162641
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_117884C.1.pep
US-10-424-599-162641

  Query Match           49.4%;  Score 40;  DB 12;  Length 65;
  Best Local Similarity   41.7%;  Pred. No. 30;
  Matches    5;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          4 IIAAYQNPASWK 15
              ::  ::|| |||
Db          2 MVCIFENPKSWK 13


RESULT 15
US-10-106-698-6717
; Sequence 6717, Application US/10106698
; Publication No. US20030109690A1
; GENERAL INFORMATION:
;  APPLICANT: Ruben et al.
;  TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
;  FILE REFERENCE: PA005P1
;  CURRENT APPLICATION NUMBER: US/10/106,698
;  CURRENT FILING DATE:  2002-03-27
;  PRIOR APPLICATION NUMBER: PCT/US00/26524
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US 60/157,137
;  PRIOR FILING DATE: 1999-09-29
;  PRIOR APPLICATION NUMBER: US 60/163,280
;  PRIOR FILING DATE: 1999-11-03
;  NUMBER OF SEQ ID NOS: 8564
;  SOFTWARE: PatentIn Ver. 3.0
; SEQ ID NO 6717
;   LENGTH: 158
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (8)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (11)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (111)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (112)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (123)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (125)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (129)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (134)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (138)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (140)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (154)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-106-698-6717

  Query Match           49.4%;  Score 40;  DB 14;  Length 158;
  Best Local Similarity   85.7%;  Pred. No. 75;
  Matches    6;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          8 YQNPASW 14
              |||| ||
Db        150 YQNPXSW 156


Search completed: April 19, 2004, 11:29:29
Job time : 69.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-12
Perfect score: 87
Sequence: 1 GKHDCTEAFSTAWQA 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	87	100.0	45	3	US-08-467-023-135	Sequence 135, App
2	87	100.0	128	3	US-08-467-023-187	Sequence 187, App
3	87	100.0	514	3	US-08-467-023-134	Sequence 134, App
4	83	95.4	36	3	US-08-467-023-137	Sequence 137, App
5	83	95.4	41	3	US-08-467-023-136	Sequence 136, App
6	49	56.3	129	4	US-09-107-532A-6990	Sequence 6990, Ap
7	49	56.3	183	4	US-09-252-991A-32179	Sequence 32179, A
8	44	50.6	433	3	US-08-941-532-6	Sequence 6, Appli
9	44	50.6	433	4	US-09-051-239A-2	Sequence 2, Appli
10	42	48.3	7	3	US-08-467-023-154	Sequence 154, App
11	40	46.0	284	4	US-09-386-642-54	Sequence 54, Appl
12	40	46.0	288	4	US-09-386-642-13	Sequence 13, Appl
13	40	46.0	289	4	US-09-386-642-14	Sequence 14, Appl
14	40	46.0	323	4	US-09-489-039A-9135	Sequence 9135, Ap
15	39	44.8	7	3	US-08-467-023-157	Sequence 157, App
16	39	44.8	41	4	US-08-924-629C-70	Sequence 70, Appl
17	39	44.8	557	4	US-09-252-991A-25674	Sequence 25674, A
18	38	43.7	119	4	US-09-489-039A-13238	Sequence 13238, A
19	38	43.7	152	4	US-09-252-991A-26498	Sequence 26498, A
20	38	43.7	186	2	US-08-750-194-2	Sequence 2, Appli
21	38	43.7	217	2	US-08-176-414B-3	Sequence 3, Appli
22	38	43.7	219	2	US-08-850-880-5	Sequence 5, Appli
23	38	43.7	219	2	US-08-944-916-5	Sequence 5, Appli
24	38	43.7	219	2	US-08-814-877-5	Sequence 5, Appli
25	38	43.7	219	4	US-09-025-769B-273	Sequence 273, App
26	38	43.7	219	4	US-09-025-769B-276	Sequence 276, App
27	38	43.7	219	4	US-09-025-769B-295	Sequence 295, App
28	38	43.7	219	4	US-09-025-769B-297	Sequence 297, App
29	38	43.7	219	4	US-09-272-432A-5	Sequence 5, Appli
30	38	43.7	219	4	US-09-495-880A-10	Sequence 10, Appl
31	38	43.7	219	4	US-09-495-880A-25	Sequence 25, Appl
32	38	43.7	219	4	US-09-495-880A-41	Sequence 41, Appl
33	38	43.7	228	4	US-09-543-681A-5415	Sequence 5415, Ap
34	38	43.7	241	6	5223425-11	Patent No. 5223425
35	38	43.7	255	4	US-09-489-039A-11247	Sequence 11247, A
36	37	42.5	26	2	US-08-620-151-94	Sequence 94, Appl
37	37	42.5	28	3	US-09-253-396A-222	Sequence 222, App
38	37	42.5	170	3	US-09-081-180-5	Sequence 5, Appli
39	37	42.5	170	3	US-09-040-786-5	Sequence 5, Appli
40	37	42.5	184	4	US-09-134-000C-4022	Sequence 4022, Ap
41	37	42.5	217	4	US-09-252-991A-21077	Sequence 21077, A
42	37	42.5	266	4	US-09-543-681A-7360	Sequence 7360, Ap
43	37	42.5	320	4	US-09-489-039A-11871	Sequence 11871, A
44	37	42.5	343	4	US-09-543-681A-5203	Sequence 5203, Ap
45	37	42.5	477	4	US-09-198-452A-19	Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-08-467-023-135
; Sequence 135, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 135:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-135

Query Match 100.0%; Score 87; DB 3; Length 45;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GKHDCTEAFSTAWQA 15
              |||||||||||||||
Db         25 GKHDCTEAFSTAWQA 39
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RESULT 2
US-08-467-023-187
; Sequence 187, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-187

Query Match 100.0%; Score 87; DB 3; Length 128;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GKHDCTEAFSTAWQA 15
              |||||||||||||||
Db         35 GKHDCTEAFSTAWQA 49
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RESULT 3
US-08-467-023-134
; Sequence 134, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 134:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 514 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-134

Query Match 100.0%; Score 87; DB 3; Length 514;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GKHDCTEAFSTAWQA 15
              |||||||||||||||
Db         70 GKHDCTEAFSTAWQA 84
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RESULT 4
US-08-467-023-137
; Sequence 137, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

```
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  137:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  36 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-137

  Query Match             95.4%;  Score 83;  DB 3;  Length 36;
  Best Local Similarity   100.0%;  Pred. No. 4.7e-07;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQ 14
              ||||||||||||||
Db         20 GKHDCTEAFSTAWQ 33


RESULT 5
US-08-467-023-136
; Sequence 136, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  136:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  41 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-136

  Query Match             95.4%;  Score 83;  DB 3;  Length 41;
  Best Local Similarity   100.0%;  Pred. No. 5.4e-07;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQ 14
              ||||||||||||||
Db         25 GKHDCTEAFSTAWQ 38


RESULT 6
US-09-107-532A-6990
; Sequence 6990, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;  INFORMATION FOR SEQ ID NO: 6990:
;       SEQUENCE CHARACTERISTICS:
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;            LENGTH: 129 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...129
;       SEQUENCE DESCRIPTION: SEQ ID NO: 6990:
US-09-107-532A-6990

  Query Match             56.3%;  Score 49;  DB 4;  Length 129;
  Best Local Similarity   61.5%;  Pred. No. 0.68;
  Matches    8;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAW 13
              |:: | |||| ||
Db         65 GRYACKEAFSKAW 77


RESULT 7
US-09-252-991A-32179
; Sequence 32179, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 32179
;   LENGTH: 183
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32179

  Query Match             56.3%;  Score 49;  DB 4;  Length 183;
  Best Local Similarity   53.3%;  Pred. No. 0.97;
  Matches    8;  Conservative    1;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQA 15
              | | || |  | |:|
Db        138 GSHGCTTAVRTGWKA 152


RESULT 8
US-08-941-532-6
; Sequence 6, Application US/08941532
; Patent No. 6096946
;  GENERAL INFORMATION:
;    APPLICANT:  ROBERTS, Jeremy Alan
;    APPLICANT:  COUPE, Simon Allan
;    APPLICANT:  JENKINS, Elizabeth Sarah
;    TITLE OF INVENTION:  CONTROL OF POD DEHISCENCE
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/941,532
;      FILING DATE:  30-SEP-1997
;      CLASSIFICATION:  800
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/GB96/00757
;      FILING DATE:  29-MAR-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9506684.1
;      FILING DATE:  31-MAR-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Esmond, Robert W.
;      REGISTRATION NUMBER:  32,893
;      REFERENCE/DOCKET NUMBER:  0623.0580001/RWE
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 433 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-941-532-6

  Query Match             50.6%;  Score 44;  DB 3;  Length 433;
  Best Local Similarity   57.1%;  Pred. No. 16;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQ 14
              || | |:||  ||:
Db         80 GKTDDTQAFKKAWK 93


RESULT 9
US-09-051-239A-2
; Sequence 2, Application US/09051239A
; Patent No. 6420628
; GENERAL INFORMATION:
;  APPLICANT:  ULVSKOV, Peter
;  APPLICANT:  CHILD, Robin
;  APPLICANT:  VAN ONCKELIN, Henri
;  APPLICANT:  PRINSEN, Els
;  APPLICANT:  BORKHARDT, Bernard
;  APPLICANT:  SANDER, Lilli
;  APPLICANT:  PETERSEN, Morten
;  APPLICANT:  BUNDGARD POULSEN, Gert
;  APPLICANT:  BOTTERMAN, Johan
;  TITLE OF INVENTION:  Seed Shattering
;  FILE REFERENCE:  2121-0138P
;  CURRENT APPLICATION NUMBER: US/09/051,239A
;  CURRENT FILING DATE:  1998-09-28
;  PRIOR APPLICATION NUMBER:  PCT/EP96/04313
;  PRIOR FILING DATE:  1996-10-04
;  PRIOR APPLICATION NUMBER:  EP 95 402241.4
;  PRIOR FILING DATE:  1995-10-06
;  PRIOR APPLICATION NUMBER:  EP 95 203328.0
;  PRIOR FILING DATE:  1995-12-08
;  NUMBER OF SEQ ID NOS:  14
;  SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 433
;   TYPE: PRT
;   ORGANISM: Brassica napus
;   FEATURE:
;   OTHER INFORMATION: Strain cv. Topaz.
US-09-051-239A-2

  Query Match             50.6%;  Score 44;  DB 4;  Length 433;
  Best Local Similarity   57.1%;  Pred. No. 16;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;
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Qy          1 GKHDCTEAFSTAWQ 14
              || | |:|| ||:
Db         80 GKTDDTQAFKKAWK 93


RESULT 10
US-08-467-023-154
; Sequence 154, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  154:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  7 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-154

  Query Match             48.3%;  Score 42;  DB 3;  Length 7;
  Best Local Similarity   100.0%;  Pred. No. 3e+05;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 KHDCTEA 8
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Db          1 KHDCTEA 7


RESULT 11
US-09-386-642-54
; Sequence 54, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
;  APPLICANT: Darrow, Andrew
;  APPLICANT: Qi, Jenson
;  APPLICANT: Andrade-Gordon, Patricia
;  TITLE OF INVENTION: Zymogen Activation System
;  FILE REFERENCE: ORT-1028
;  CURRENT APPLICATION NUMBER: US/09/386,642
;  CURRENT FILING DATE: 1999-08-31
;  NUMBER OF SEQ ID NOS: 60
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 54
;   LENGTH: 284
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Human MH2
;   OTHER INFORMATION: protease in PFEK zymogen vector
US-09-386-642-54

  Query Match             46.0%;  Score 40;  DB 4;  Length 284;
  Best Local Similarity   46.7%;  Pred. No. 46;
  Matches    7;  Conservative    2;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQA 15
              | ::| |  |  |||
Db         54 GGYNCLEPHSQPWQA 68


RESULT 12
US-09-386-642-13
; Sequence 13, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
;  APPLICANT: Darrow, Andrew
;  APPLICANT: Qi, Jenson
;  APPLICANT: Andrade-Gordon, Patricia
;  TITLE OF INVENTION: Zymogen Activation System
;  FILE REFERENCE: ORT-1028
;  CURRENT APPLICATION NUMBER: US/09/386,642
;  CURRENT FILING DATE: 1999-08-31
;  NUMBER OF SEQ ID NOS: 60
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
;   LENGTH: 288
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
;   OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-13

  Query Match             46.0%;  Score 40;  DB 4;  Length 288;
  Best Local Similarity   46.7%;  Pred. No. 47;
  Matches    7;  Conservative    2;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQA 15
              | ::| |  |  |||
Db         54 GGYNCLEPHSQPWQA 68


RESULT 13
US-09-386-642-14
; Sequence 14, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
;  APPLICANT: Darrow, Andrew
;  APPLICANT: Qi, Jenson
;  APPLICANT: Andrade-Gordon, Patricia
;  TITLE OF INVENTION: Zymogen Activation System
;  FILE REFERENCE: ORT-1028
;  CURRENT APPLICATION NUMBER: US/09/386,642
;  CURRENT FILING DATE: 1999-08-31
;  NUMBER OF SEQ ID NOS: 60
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
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; LENGTH: 289
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-14

Query Match 46.0%; Score 40; DB 4; Length 289;
Best Local Similarity 46.7%; Pred. No. 47;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAWQA 15
| ::| | | |||
Db 54 GGYNCLEKHSQPWQA 68

RESULT 14
US-09-489-039A-9135
; Sequence 9135, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 9135
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9135

Query Match 46.0%; Score 40; DB 4; Length 323;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 7 EAFSTAWQA 15
|||: ||||
Db 94 EAFAAAWQA 102

RESULT 15
US-08-467-023-157
; Sequence 157, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 157:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-157

Query Match 44.8%; Score 39; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GKHDCT 6
||||||
Db 2 GKHDCT 7

Search completed: April 19, 2004, 12:38:18
Job time : 15.6939 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-13
Perfect score: 72
Sequence: 1 SAMLLVPGSKKFVVN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	72	100.0	15	14	US-10-354-240-91	Sequence 91, Appl
2	69	95.8	514	10	US-09-847-208-69	Sequence 69, Appl
3	51	70.8	15	14	US-10-354-240-92	Sequence 92, Appl
4	47	65.3	15	14	US-10-354-240-90	Sequence 90, Appl
5	40	55.6	394	15	US-10-289-762-876	Sequence 876, App
6	39	54.2	231	12	US-10-424-599-217138	Sequence 217138,
7	39	54.2	459	12	US-10-425-114-61505	Sequence 61505, A
8	39	54.2	497	12	US-10-425-114-65135	Sequence 65135, A
9	39	54.2	524	12	US-10-425-114-64486	Sequence 64486, A
10	39	54.2	533	12	US-10-425-114-57875	Sequence 57875, A
11	38	52.8	133	12	US-10-282-122A-76914	Sequence 76914, A
12	38	52.8	168	12	US-10-424-599-259509	Sequence 259509,
13	38	52.8	212	12	US-10-424-599-224898	Sequence 224898,
14	38	52.8	295	12	US-09-826-001-24	Sequence 24, Appl
15	38	52.8	389	12	US-10-425-114-61382	Sequence 61382, A
16	38	52.8	579	15	US-10-369-493-12903	Sequence 12903, A
17	37	51.4	130	12	US-10-282-122A-60434	Sequence 60434, A
18	37	51.4	425	14	US-10-284-985-31	Sequence 31, Appl
19	37	51.4	455	9	US-09-861-696-3	Sequence 3, Appli
20	37	51.4	455	9	US-09-861-696-70	Sequence 70, Appl
21	37	51.4	455	9	US-09-464-099A-3	Sequence 3, Appli
22	37	51.4	455	9	US-09-464-099A-70	Sequence 70, Appl
23	37	51.4	524	12	US-10-424-599-169346	Sequence 169346,
24	37	51.4	525	14	US-10-101-464A-613	Sequence 613, App
25	37	51.4	541	15	US-10-369-493-1867	Sequence 1867, Ap
26	36.5	50.7	425	14	US-10-223-598-4	Sequence 4, Appli
27	36	50.0	56	12	US-10-424-599-147534	Sequence 147534,
28	36	50.0	58	14	US-10-083-357-940	Sequence 940, App
29	36	50.0	82	12	US-10-424-599-170001	Sequence 170001,
30	36	50.0	84	12	US-10-424-599-202683	Sequence 202683,
31	36	50.0	85	12	US-10-424-599-152697	Sequence 152697,
32	36	50.0	130	12	US-10-282-122A-51936	Sequence 51936, A
33	36	50.0	130	12	US-10-282-122A-78232	Sequence 78232, A
34	36	50.0	135	14	US-10-119-431-8	Sequence 8, Appli
35	36	50.0	138	9	US-09-731-872-252	Sequence 252, App
36	36	50.0	138	9	US-09-981-876-222	Sequence 222, App
37	36	50.0	138	10	US-09-148-545-222	Sequence 222, App
38	36	50.0	138	10	US-09-876-997-252	Sequence 252, App
39	36	50.0	139	9	US-09-981-876-160	Sequence 160, App
40	36	50.0	139	10	US-09-148-545-160	Sequence 160, App
41	36	50.0	165	12	US-10-424-599-284690	Sequence 284690,
42	36	50.0	219	14	US-10-032-585-7011	Sequence 7011, Ap
43	36	50.0	255	15	US-10-369-493-9389	Sequence 9389, Ap
44	36	50.0	257	15	US-10-369-493-17635	Sequence 17635, A
45	36	50.0	340	12	US-10-282-122A-47547	Sequence 47547, A

ALIGNMENTS

RESULT 1
US-10-354-240-91
; Sequence 91, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 91
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 8
US-10-354-240-91

Query Match 100.0%; Score 72; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.6e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SAMLLVPGSKKFVVN 15
||||||||||||||||
Db 1 SAMLLVPGSKKFVVN 15

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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
;   LENGTH: 514
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

  Query Match             95.8%;  Score 69;  DB 10;  Length 514;
  Best Local Similarity   93.3%;  Pred. No. 0.00063;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGSKKFVVN 15
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Db         90 SAMLLVPGNKKFVVN 104


RESULT 3
US-10-354-240-92
; Sequence 92, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 92
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 9
US-10-354-240-92

  Query Match             70.8%;  Score 51;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.023;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 VPGSKKFVVN 15
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Db          1 VPGSKKFVVN 10


RESULT 4
US-10-354-240-90
; Sequence 90, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 90
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 7
US-10-354-240-90

  Query Match             65.3%;  Score 47;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.12;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGSK 10
              ||||||||||
Db          6 SAMLLVPGSK 15


RESULT 5
US-10-289-762-876
; Sequence 876, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/10/289,762
;  CURRENT FILING DATE:  2003-03-27
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 876
;   LENGTH: 394
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
US-10-289-762-876

  Query Match             55.6%;  Score 40;  DB 15;  Length 394;
  Best Local Similarity   58.3%;  Pred. No. 88;
  Matches    7;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          3 MLLVPGSKKFVV 14
              :  :||:|||||
Db        246 LFALPGTKKFVV 257


RESULT 6
US-10-424-599-217138
; Sequence 217138, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
```

```
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 217138
;   LENGTH: 231
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(231)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_38102C.1.pep
US-10-424-599-217138

  Query Match             54.2%;  Score 39;  DB 12;  Length 231;
  Best Local Similarity   63.6%;  Pred. No. 74;
  Matches    7;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          5 LVPGSKKFVVN 15
              ||| |:| :||
Db        189 LVPSSRKMIVN 199


RESULT 7
US-10-425-114-61505
; Sequence 61505, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61505
;   LENGTH: 459
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB143-005-F3_FLI.pep
US-10-425-114-61505

  Query Match             54.2%;  Score 39;  DB 12;  Length 459;
  Best Local Similarity   53.8%;  Pred. No. 1.6e+02;
  Matches    7;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 AMLLVPGSKKFVV 14
              | :|:||:|:| |
Db         83 ATMLIPGAKEFRV 95


RESULT 8
US-10-425-114-65135
; Sequence 65135, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 65135
;   LENGTH: 497
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: UC-ZMFLMO17103D03_FLI.pep
US-10-425-114-65135

  Query Match             54.2%;  Score 39;  DB 12;  Length 497;
  Best Local Similarity   53.8%;  Pred. No. 1.7e+02;
  Matches    7;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 AMLLVPGSKKFVV 14
              | :|:||:|:| |
Db        121 ATMLIPGAKEFRV 133


RESULT 9
US-10-425-114-64486
; Sequence 64486, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64486
;   LENGTH: 524
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3060-104-F8_FLI.pep
US-10-425-114-64486

  Query Match             54.2%;  Score 39;  DB 12;  Length 524;
  Best Local Similarity   53.8%;  Pred. No. 1.8e+02;
  Matches    7;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 AMLLVPGSKKFVV 14
              | :|:||:|:| |
Db        148 ATMLIPGAKEFRV 160


RESULT 10
US-10-425-114-57875
; Sequence 57875, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
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; SEQ ID NO 57875
; LENGTH: 533
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLMO17051F08_FLI.pep
US-10-425-114-57875

Query Match 54.2%; Score 39; DB 12; Length 533;
Best Local Similarity 53.8%; Pred. No. 1.9e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 2 AMLLVPGSKKFVV 14
| :|:||:|:| |
Db 157 ATMLIPGAKEFRV 169

RESULT 11
US-10-282-122A-76914
; Sequence 76914, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76914
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Ureaplasma urealyticum
US-10-282-122A-76914

Query Match 52.8%; Score 38; DB 12; Length 133;
Best Local Similarity 72.7%; Pred. No. 61;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 5 LVPGSKKFVVN 15
||||| | :||
Db 24 LVPGSGKVLVN 34

RESULT 12
US-10-424-599-259509
; Sequence 259509, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 259509
; LENGTH: 168
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_76362C.1.pep
US-10-424-599-259509

Query Match 52.8%; Score 38; DB 12; Length 168;
Best Local Similarity 60.0%; Pred. No. 78;
Matches 9; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 SAMLLVPGSKKFVVN 15
|| ||| |: |||
Db 61 SASLLVEGTNPIVVN 75

RESULT 13
US-10-424-599-224898
; Sequence 224898, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 224898
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_45113C.1.pep
US-10-424-599-224898

Query Match 52.8%; Score 38; DB 12; Length 212;
Best Local Similarity 87.5%; Pred. No. 1e+02;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 6 VPGSKKFV 13
||||||:
Db 192 VPGSKKFL 199

RESULT 14
US-09-826-001-24
; Sequence 24, Application US/09826001
; Publication No. US20020086300A1
; GENERAL INFORMATION:
; APPLICANT: ADLER, JON ELLIOT

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;  APPLICANT:  O'CONNELL, SHAWN M.
;  TITLE OF INVENTION: NOVEL SIGNAL TRANSDUCTION MOLECULES
;  FILE REFERENCE: 078003-0279153
;  CURRENT APPLICATION NUMBER: US/09/826,001
;  CURRENT FILING DATE:  2001-08-23
;  PRIOR APPLICATION NUMBER: 60/195,534
;  PRIOR FILING DATE: 2000-04-07
;  PRIOR APPLICATION NUMBER: 60/259,514
;  PRIOR FILING DATE: 2001-01-04
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
;   LENGTH: 295
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-826-001-24

  Query Match           52.8%;  Score 38;  DB 12;  Length 295;
  Best Local Similarity   72.7%;  Pred. No. 1.5e+02;
  Matches    8;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          4 LLVPGSKKFVV 14
              ||||||  ||:
Db         99 LLVPGSVSFVL 109


RESULT 15
US-10-425-114-61382
; Sequence 61382, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61382
;   LENGTH: 389
;   TYPE: PRT
;   ORGANISM: Zea mays
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3060-114-D7_FLI.pep
US-10-425-114-61382

  Query Match           52.8%;  Score 38;  DB 12;  Length 389;
  Best Local Similarity   46.7%;  Pred. No. 2e+02;
  Matches    7;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 SAMLLVPGSKKFVVN 15
              |: | ||  ::|||::
Db        304 SSTLAVPSNRKFVLD 318


Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-12
Perfect score: 87
Sequence: 1 GKHDCTEAFSTAWQA 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
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11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	87	100.0	15	14	US-10-354-240-87	Sequence 87, Appl
2	87	100.0	514	10	US-09-847-208-69	Sequence 69, Appl
3	58	66.7	15	14	US-10-354-240-86	Sequence 86, Appl
4	55	63.2	422	12	US-10-424-599-176320	Sequence 176320,
5	53	60.9	15	14	US-10-354-240-88	Sequence 88, Appl
6	47	54.0	81	12	US-10-424-599-241554	Sequence 241554,
7	46	52.9	117	9	US-09-815-242-10776	Sequence 10776, A
8	46	52.9	117	12	US-10-282-122A-57376	Sequence 57376, A
9	44	50.6	265	12	US-10-424-599-175851	Sequence 175851,
10	44	50.6	433	13	US-10-151-668-2	Sequence 2, Appli
11	44	50.6	2871	15	US-10-015-115-57	Sequence 57, Appl
12	44	50.6	3002	15	US-10-015-115-56	Sequence 56, Appl
13	41	47.1	66	12	US-10-424-599-245120	Sequence 245120,
14	41	47.1	321	14	US-10-238-075-601	Sequence 601, App
15	41	47.1	617	12	US-10-424-599-248678	Sequence 248678,
16	41	47.1	635	9	US-09-949-842-18	Sequence 18, Appl
17	41	47.1	709	15	US-10-264-049-2396	Sequence 2396, Ap
18	41	47.1	952	16	US-10-389-566-627	Sequence 627, App
19	40	46.0	115	14	US-10-106-698-7021	Sequence 7021, Ap
20	40	46.0	299	14	US-10-156-761-11947	Sequence 11947, A
21	40	46.0	368	12	US-10-424-599-200790	Sequence 200790,
22	40	46.0	496	12	US-10-425-114-66151	Sequence 66151, A
23	40	46.0	573	12	US-10-425-114-43413	Sequence 43413, A
24	39	44.8	41	10	US-09-883-343A-70	Sequence 70, Appl
25	39	44.8	54	10	US-09-733-643-21	Sequence 21, Appl
26	39	44.8	115	12	US-10-424-599-155266	Sequence 155266,
27	39	44.8	115	14	US-10-029-386-31459	Sequence 31459, A
28	39	44.8	193	12	US-10-424-599-230684	Sequence 230684,
29	39	44.8	227	14	US-10-103-313-468	Sequence 468, App
30	39	44.8	249	15	US-10-369-493-12523	Sequence 12523, A
31	39	44.8	283	12	US-10-424-599-230687	Sequence 230687,
32	39	44.8	385	15	US-10-369-493-6129	Sequence 6129, Ap
33	39	44.8	398	12	US-10-362-091-4	Sequence 4, Appli
34	39	44.8	443	12	US-10-424-599-235443	Sequence 235443,
35	39	44.8	456	12	US-10-425-114-44707	Sequence 44707, A
36	39	44.8	544	12	US-10-282-122A-43707	Sequence 43707, A
37	39	44.8	754	15	US-10-369-493-21288	Sequence 21288, A
38	39	44.8	2871	15	US-10-015-115-59	Sequence 59, Appl
39	38.5	44.3	609	15	US-10-264-237-2378	Sequence 2378, Ap
40	38.5	44.3	1196	15	US-10-094-749-2699	Sequence 2699, Ap
41	38	43.7	117	9	US-09-925-301-1066	Sequence 1066, Ap
42	38	43.7	134	13	US-10-079-623-364	Sequence 364, App
43	38	43.7	148	12	US-09-925-298-536	Sequence 536, App
44	38	43.7	148	14	US-10-102-806-536	Sequence 536, App
45	38	43.7	204	9	US-09-930-329-3	Sequence 3, Appli

ALIGNMENTS

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RESULT 1
US-10-354-240-87
; Sequence 87, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 87
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 4
US-10-354-240-87

  Query Match           100.0%;  Score 87;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 1.4e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQA 15
              |||||||||||||||
Db          1 GKHDCTEAFSTAWQA 15
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RESULT 2
US-09-847-208-69
; Sequence 69, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 514
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-69

Query Match 100.0%; Score 87; DB 10; Length 514;
Best Local Similarity 100.0%; Pred. No. 4.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAWQA 15
||||||||||||||||
Db 70 GKHDCTEAFSTAWQA 84

RESULT 3
US-10-354-240-86
; Sequence 86, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 86
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 3
US-10-354-240-86

Query Match 66.7%; Score 58; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.009;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFS 10
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Db 6 GKHDCTEAFS 15

RESULT 4
US-10-424-599-176320
; Sequence 176320, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 176320
; LENGTH: 422
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_130234C.1.pep
US-10-424-599-176320

Query Match 63.2%; Score 55; DB 12; Length 422;
Best Local Similarity 69.2%; Pred. No. 0.77;
Matches 9; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GKHDCTEAFSTAW 13
|| |||:| ||
Db 64 GKFDCTESFMQAW 76

RESULT 5
US-10-354-240-88
; Sequence 88, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 88
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 5
US-10-354-240-88

Query Match 60.9%; Score 53; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TEAFSTAWQA 15
||||||||||
Db 1 TEAFSTAWQA 10

RESULT 6
US-10-424-599-241554
; Sequence 241554, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:

```
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 241554
;   LENGTH: 81
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_6014C.1.pep
US-10-424-599-241554

  Query Match             54.0%;  Score 47;  DB 12;  Length 81;
  Best Local Similarity   50.0%;  Pred. No. 3.2;
  Matches    6;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 KHDCTEAFSTAW 13
              :|||:  :|| |
Db         34 QHDCSNTYSTLW 45


RESULT 7
US-09-815-242-10776
; Sequence 10776, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
;  APPLICANT: Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari L.
;  APPLICANT:  Zyskind, Judith W.
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John D.
;  APPLICANT:  Carr, Grant J.
;  APPLICANT:  Yamamoto, Robert T.
;  APPLICANT:  Xu, H. Howard
;  TITLE OF INVENTION: Identification of Essential Genes in
;  TITLE OF INVENTION:  Prokaryotes
;  FILE REFERENCE: ELITRA.011A
;  CURRENT APPLICATION NUMBER: US/09/815,242
;  CURRENT FILING DATE:  2001-03-21
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  NUMBER OF SEQ ID NOS: 14110
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10776
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-815-242-10776

  Query Match             52.9%;  Score 46;  DB 9;  Length 117;
  Best Local Similarity   61.5%;  Pred. No. 6.7;
  Matches    8;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAW 13
              |:  | ||||  ||
Db         52 GRFACKEAFSKAW 64


RESULT 8
US-10-282-122A-57376
; Sequence 57376, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57376
;   LENGTH: 117
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-10-282-122A-57376

  Query Match             52.9%;  Score 46;  DB 12;  Length 117;
  Best Local Similarity   61.5%;  Pred. No. 6.7;
  Matches    8;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAW 13
              |:  | ||||  ||
Db         52 GRFACKEAFSKAW 64


RESULT 9
US-10-424-599-175851
; Sequence 175851, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
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;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 175851
;   LENGTH: 265
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_129811C.1.pep
US-10-424-599-175851

  Query Match             50.6%;  Score 44;  DB 12;  Length 265;
  Best Local Similarity   72.7%;  Pred. No. 32;
  Matches    8;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFST 11
              |: || |||||
Db        204 GEGDCAEAFST 214


RESULT 10
US-10-151-668-2
; Sequence 2, Application US/10151668
; Publication No. US20020184660A1
; GENERAL INFORMATION:
;  APPLICANT: ULVSKOV, Peter
;  APPLICANT:  CHILD, Robin
;  APPLICANT:  VAN ONCKELIN, Henri
;  APPLICANT:  PRINSEN, Els
;  APPLICANT:  BORKHARDT, Bernard
;  APPLICANT:  SANDER, Lilli
;  APPLICANT:  PETERSEN, Morten
;  APPLICANT:  BUNDGARD POULSEN, Gert
;  APPLICANT:  BOTTERMAN, Johan
;  TITLE OF INVENTION: Seed Shattering
;  FILE REFERENCE: 2121-0138P
;  CURRENT APPLICATION NUMBER: US/10/151,668
;  CURRENT FILING DATE:  2002-05-21
;  PRIOR APPLICATION NUMBER: US/09/051,239
;  PRIOR FILING DATE: 1998-09-28
;  PRIOR APPLICATION NUMBER: PCT/EP96/04313
;  PRIOR FILING DATE: 1996-10-04
;  PRIOR APPLICATION NUMBER: EP 95 402241.4
;  PRIOR FILING DATE: 1995-10-06
;  PRIOR APPLICATION NUMBER: EP 95 203328.0
;  PRIOR FILING DATE: 1995-12-08
;  NUMBER OF SEQ ID NOS: 14
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
;   LENGTH: 433
;   TYPE: PRT
;   ORGANISM: Brassica napus
;   FEATURE:
;   OTHER INFORMATION: Strain cv. Topaz.
US-10-151-668-2

  Query Match             50.6%;  Score 44;  DB 13;  Length 433;
  Best Local Similarity   57.1%;  Pred. No. 53;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAFSTAWQ 14
              || | |:|| ||:
Db         80 GKTDDTQAFKKAWK 93


RESULT 11
US-10-015-115-57
; Sequence 57, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
;  APPLICANT: Malyankar, Uriel M
;  APPLICANT:  Shenoy, Suresh G
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Zerhusen, Bryan D
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Guo, Xiaojia
;  APPLICANT:  Kekuda, Ramesha
;  APPLICANT:  Gangolli, Esha A
;  APPLICANT:  Shimkets, Richard A
;  APPLICANT:  Taupier, Raymond J
;  APPLICANT:  Li, Li
;  APPLICANT:  Padigaru, Muralidhara
;  TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
;  TITLE OF INVENTION:  Using the Same
;  FILE REFERENCE: 21402-211
;  CURRENT APPLICATION NUMBER: US/10/015,115
;  CURRENT FILING DATE:  2002-09-23
;  PRIOR APPLICATION NUMBER: 60/248,153
;  PRIOR FILING DATE: 2000-11-13
;  PRIOR APPLICATION NUMBER: 60/249,598
;  PRIOR FILING DATE: 2000-11-17
;  PRIOR APPLICATION NUMBER: 60/264,240
;  PRIOR FILING DATE: 2001-01-26
;  PRIOR APPLICATION NUMBER: 60/266,127
;  PRIOR FILING DATE: 2001-02-02
;  PRIOR APPLICATION NUMBER: 60/269,562
;  PRIOR FILING DATE: 2001-02-16
;  PRIOR APPLICATION NUMBER: 60/304,348
;  PRIOR FILING DATE: 2001-07-10
;  PRIOR APPLICATION NUMBER: 60/309,261
;  PRIOR FILING DATE: 2001-07-31
;  PRIOR APPLICATION NUMBER: 60/313,283
;  PRIOR FILING DATE: 2001-08-17
;  NUMBER OF SEQ ID NOS: 205
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 57
;   LENGTH: 2871
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-015-115-57

  Query Match             50.6%;  Score 44;  DB 15;  Length 2871;
  Best Local Similarity   100.0%;  Pred. No. 3.5e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GKHDCTE 7
              |||||||
Db       2254 GKHDCTE 2260


RESULT 12
US-10-015-115-56
; Sequence 56, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
;  APPLICANT: Malyankar, Uriel M
;  APPLICANT:  Shenoy, Suresh G
;  APPLICANT:  Spytek, Kimberly A
;  APPLICANT:  Zerhusen, Bryan D
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Guo, Xiaojia
;  APPLICANT:  Kekuda, Ramesha
;  APPLICANT:  Gangolli, Esha A
;  APPLICANT:  Shimkets, Richard A
;  APPLICANT:  Taupier, Raymond J
;  APPLICANT:  Li, Li
;  APPLICANT:  Padigaru, Muralidhara
;  TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
;  TITLE OF INVENTION:  Using the Same
;  FILE REFERENCE: 21402-211
;  CURRENT APPLICATION NUMBER: US/10/015,115
;  CURRENT FILING DATE:  2002-09-23
;  PRIOR APPLICATION NUMBER: 60/248,153
;  PRIOR FILING DATE: 2000-11-13
;  PRIOR APPLICATION NUMBER: 60/249,598
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;  PRIOR FILING DATE: 2000-11-17
;  PRIOR APPLICATION NUMBER: 60/264,240
;  PRIOR FILING DATE: 2001-01-26
;  PRIOR APPLICATION NUMBER: 60/266,127
;  PRIOR FILING DATE: 2001-02-02
;  PRIOR APPLICATION NUMBER: 60/269,562
;  PRIOR FILING DATE: 2001-02-16
;  PRIOR APPLICATION NUMBER: 60/304,348
;  PRIOR FILING DATE: 2001-07-10
;  PRIOR APPLICATION NUMBER: 60/309,261
;  PRIOR FILING DATE: 2001-07-31
;  PRIOR APPLICATION NUMBER: 60/313,283
;  PRIOR FILING DATE: 2001-08-17
;  NUMBER OF SEQ ID NOS: 205
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56
;   LENGTH: 3002
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-015-115-56

  Query Match             50.6%;  Score 44;  DB 15;  Length 3002;
  Best Local Similarity   100.0%;  Pred. No. 3.6e+02;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GKHDCTE 7
              |||||||
Db       2385 GKHDCTE 2391


RESULT 13
US-10-424-599-245120
; Sequence 245120, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 245120
;   LENGTH: 66
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(66)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_63374C.1.pep
US-10-424-599-245120

  Query Match             47.1%;  Score 41;  DB 12;  Length 66;
  Best Local Similarity   85.7%;  Pred. No. 26;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GKHDCTE 7
              |:|||||
Db         55 GRHDCTE 61


RESULT 14
US-10-238-075-601
; Sequence 601, Application US/10238075
; Publication No. US20030148324A1
; GENERAL INFORMATION:
;  APPLICANT: I.N.S.E.R.M.
;  TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat
;  TITLE OF INVENTION:  E.coli, and biological uses of these polynucleotides and of thei
;  FILE REFERENCE: BLANDINE
;  CURRENT APPLICATION NUMBER: US/10/238,075
;  CURRENT FILING DATE:  2002-09-10
;  PRIOR APPLICATION NUMBER: 0003145
;  PRIOR FILING DATE: 2000-03-10
;  NUMBER OF SEQ ID NOS: 1576
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 601
;   LENGTH: 321
;   TYPE: PRT
;   ORGANISM: Escherichia coli
US-10-238-075-601

  Query Match             47.1%;  Score 41;  DB 14;  Length 321;
  Best Local Similarity   66.7%;  Pred. No. 1.2e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 GKHDCTEAF 9
              |||:| |:|
Db        189 GKHNCVESF 197


RESULT 15
US-10-424-599-248678
; Sequence 248678, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 248678
;   LENGTH: 617
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(617)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_66586C.1.pep
US-10-424-599-248678

  Query Match             47.1%;  Score 41;  DB 12;  Length 617;
  Best Local Similarity   54.5%;  Pred. No. 2.4e+02;
  Matches    6;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          3 HDCTEAFSTAW 13
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Db        403 HDASDAFPTEW 413


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Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-10
Perfect score: 78
Sequence: 1 AFNVENGNATPQLTK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	78	100.0	16	3	US-08-467-023-19	Sequence 19, Appl
2	78	100.0	20	3	US-08-467-023-58	Sequence 58, Appl
3	78	100.0	63	3	US-08-467-023-65	Sequence 65, Appl
4	78	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
5	71	91.0	16	2	US-08-773-008-4	Sequence 4, Appli
6	67	85.9	367	3	US-08-467-023-95	Sequence 95, Appl
7	53	67.9	20	3	US-08-467-023-59	Sequence 59, Appl
8	53	67.9	23	2	US-08-773-008-3	Sequence 3, Appli
9	45	57.7	370	3	US-08-467-023-97	Sequence 97, Appl
10	42	53.8	397	2	US-08-750-134A-9	Sequence 9, Appli
11	42	53.8	397	3	US-09-363-745-9	Sequence 9, Appli
12	42	53.8	397	3	US-09-191-136-16	Sequence 16, Appl
13	42	53.8	397	3	US-09-191-136-17	Sequence 17, Appl
14	42	53.8	505	3	US-08-747-221B-14	Sequence 14, Appl
15	42	53.8	505	3	US-09-005-051-14	Sequence 14, Appl
16	42	53.8	505	4	US-09-403-942F-14	Sequence 14, Appl
17	42	53.8	530	3	US-08-747-221B-53	Sequence 53, Appl
18	42	53.8	530	3	US-09-005-051-53	Sequence 53, Appl
19	42	53.8	530	4	US-09-403-942F-53	Sequence 53, Appl
20	42	53.8	550	3	US-08-747-221B-19	Sequence 19, Appl
21	42	53.8	550	3	US-08-747-221B-58	Sequence 58, Appl
22	42	53.8	550	3	US-09-005-051-19	Sequence 19, Appl
23	42	53.8	550	3	US-09-005-051-58	Sequence 58, Appl
24	42	53.8	550	4	US-09-403-942F-19	Sequence 19, Appl
25	42	53.8	550	4	US-09-403-942F-58	Sequence 58, Appl
26	39	50.0	1335	4	US-09-134-001C-3716	Sequence 3716, Ap
27	38	48.7	1337	3	US-08-854-585-2	Sequence 2, Appli
28	38	48.7	1337	4	US-09-447-533-2	Sequence 2, Appli
29	38	48.7	1337	5	PCT-US95-05512-2	Sequence 2, Appli
30	37	47.4	128	4	US-09-252-991A-28235	Sequence 28235, A
31	37	47.4	158	4	US-09-540-236-2076	Sequence 2076, Ap
32	37	47.4	317	4	US-09-533-029-4	Sequence 4, Appli
33	37	47.4	380	3	US-08-969-815-4	Sequence 4, Appli
34	37	47.4	380	3	US-09-120-025-4	Sequence 4, Appli
35	37	47.4	380	4	US-09-710-481-4	Sequence 4, Appli
36	37	47.4	380	4	US-09-553-875-4	Sequence 4, Appli
37	37	47.4	380	4	US-09-768-670-4	Sequence 4, Appli
38	37	47.4	552	4	US-09-134-000C-3838	Sequence 3838, Ap
39	37	47.4	625	4	US-09-196-270-6	Sequence 6, Appli
40	37	47.4	1622	4	US-09-231-899-72	Sequence 72, Appl
41	36	46.2	165	2	US-08-955-138-8	Sequence 8, Appli
42	36	46.2	236	4	US-09-134-001C-3558	Sequence 3558, Ap
43	36	46.2	242	4	US-09-489-039A-8068	Sequence 8068, Ap
44	36	46.2	258	4	US-09-134-001C-3536	Sequence 3536, Ap
45	36	46.2	267	3	US-08-718-905-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-08-467-023-19
; Sequence 19, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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;    ORIGINAL SOURCE:
;      ORGANISM:  Cryptomeria japonica
US-08-467-023-19

  Query Match             100.0%;  Score 78;  DB 3;  Length 16;
  Best Local Similarity   100.0%;  Pred. No. 1.4e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              |||||||||||||||
Db          2 AFNVENGNATPQLTK 16


RESULT 2
US-08-467-023-58
; Sequence 58, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  58:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-58

  Query Match             100.0%;  Score 78;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 1.8e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              |||||||||||||||
Db          6 AFNVENGNATPQLTK 20


RESULT 3
US-08-467-023-65
; Sequence 65, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  65:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  63 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-65

  Query Match             100.0%;  Score 78;  DB 3;  Length 63;
  Best Local Similarity   100.0%;  Pred. No. 7.4e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              |||||||||||||||
Db         36 AFNVENGNATPQLTK 50


RESULT 4
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
```

```
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 78;  DB 3;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 6.5e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AFNVVENGNATPQLTK 15
              ||||||||||||||||
Db        347 AFNVVENGNATPQLTK 361


RESULT 5
US-08-773-008-4
; Sequence 4, Application US/08773008
; Patent No. 5874401
;  GENERAL INFORMATION:
;    APPLICANT:  SANOU, Osamu
;    APPLICANT:  HINO, Katsuhiko
;    APPLICANT:  KURIMOTO, Masashi
;    TITLE OF INVENTION:  PROTEIN, PROCESS TO PRODUCE THE SAME,
;    TITLE OF INVENTION:  AND USES THEREOF
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/773,008
;      FILING DATE:  24-DEC-1996
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/354,815
;      FILING DATE:  08-DEC-1994
;      APPLICATION NUMBER:  JP 347017
;      FILING DATE:  27-DEC-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  YUN, Allen C.
;      REGISTRATION NUMBER:  37,971
;      REFERENCE/DOCKET NUMBER:  SANOU=1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  16 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-773-008-4

  Query Match             91.0%;  Score 71;  DB 2;  Length 16;
  Best Local Similarity   93.3%;  Pred. No. 2.4e-06;
  Matches   14;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 AFNVVENGNATPQLTK 15
              ||||||| |||||||
Db          2 AFNVVENGXATPQLTK 16


RESULT 6
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
```

```
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             85.9%;  Score 67;  DB 3;  Length 367;
  Best Local Similarity   86.7%;  Pred. No. 0.00058;
  Matches   13;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              || |||||| |||||
Db        347 AFKVENGNAAPQLTK 361


RESULT 7
US-08-467-023-59
; Sequence 59, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  59:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-59

  Query Match             67.9%;  Score 53;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0052;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 NGNATPQLTK 15
              ||||||||||
Db          1 NGNATPQLTK 10


RESULT 8
US-08-773-008-3
; Sequence 3, Application US/08773008
; Patent No. 5874401
;  GENERAL INFORMATION:
;    APPLICANT:  SANOU, Osamu
;    APPLICANT:  HINO, Katsuhiko
;    APPLICANT:  KURIMOTO, Masashi
;    TITLE OF INVENTION:  PROTEIN, PROCESS TO PRODUCE THE SAME,
;    TITLE OF INVENTION:  AND USES THEREOF
;    NUMBER OF SEQUENCES:  5
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  BROWDY AND NEIMARK
;      STREET:  419 Seventh Street, N.W., Suite 300
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20004
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/773,008
;      FILING DATE:  24-DEC-1996
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/354,815
;      FILING DATE:  08-DEC-1994
;      APPLICATION NUMBER:  JP 347017
;      FILING DATE:  27-DEC-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  YUN, Allen C.
;      REGISTRATION NUMBER:  37,971
;      REFERENCE/DOCKET NUMBER:  SANOU=1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-628-5197
;      TELEFAX:  202-737-3528
;      TELEX:  248633
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  23 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-773-008-3

  Query Match             67.9%;  Score 53;  DB 2;  Length 23;
  Best Local Similarity   100.0%;  Pred. No. 0.0062;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 NGNATPQLTK 15
              ||||||||||
Db          1 NGNATPQLTK 10


RESULT 9
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
```

```
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             57.7%;  Score 45;  DB 3;  Length 370;
  Best Local Similarity   60.0%;  Pred. No. 4.9;
  Matches    9;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              || ||: |  | |||
Db        341 AFKVESANEVPTLTK 355


RESULT 10
US-08-750-134A-9
; Sequence 9, Application US/08750134A
; Patent No. 5985603
;  GENERAL INFORMATION:
;    APPLICANT:  VALERA, SOLEDAD
;    APPLICANT:  BUELL, GARY
;    TITLE OF INVENTION:  P2x RECEPTORS (PURINOCEPTOR FAMILY)
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/750,134A
;      FILING DATE:  22-JAN-1997
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CRAWFORD, ARTHUR C.
;      REGISTRATION NUMBER:  25,327
;      REFERENCE/DOCKET NUMBER:  1430-116
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 816-4006
;      TELEFAX:  (703) 816-4100
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  397 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-750-134A-9

  Query Match             53.8%;  Score 42;  DB 2;  Length 397;
  Best Local Similarity   61.5%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 FNVENGNATPQLT 14
              || | ||  | ||
Db        184 FNFEKGNLLPNLT 196


RESULT 11
US-09-363-745-9
; Sequence 9, Application US/09363745
; Patent No. 6194162
;  GENERAL INFORMATION:
;    APPLICANT:  VALERA, SOLEDAD
;    APPLICANT:  BUELL, GARY
;    TITLE OF INVENTION:  P2x RECEPTORS (PURINOCEPTOR FAMILY)
;    NUMBER OF SEQUENCES:  11
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/363,745
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/750,134
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  CRAWFORD, ARTHUR C.
;      REGISTRATION NUMBER:  25,327
;      REFERENCE/DOCKET NUMBER:  1430-116
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 816-4006
;      TELEFAX:  (703) 816-4100
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  397 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-363-745-9
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  Query Match             53.8%;  Score 42;  DB 3;  Length 397;
  Best Local Similarity   61.5%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 FNVENGNATPQLT 14
              || | ||  | ||
Db        184 FNFEKGNLLPNLT 196


RESULT 12
US-09-191-136-16
; Sequence 16, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
;  APPLICANT: Abbott Laboratories
;  APPLICANT: Lynch, Kevin J.
;  APPLICANT: Burgard, Edward C.
;  APPLICANT: Van Biesen, T.
;  TITLE OF INVENTION: Nucleic Acids Encoding A Functional
;  TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
;  TITLE OF INVENTION: And Use Thereof
;  FILE REFERENCE: 6293.US.P1
;  CURRENT APPLICATION NUMBER: US/09/191,136B
;  CURRENT FILING DATE: 1998-11-13
;  EARLIER APPLICATION NUMBER: US 09/008,526
;  EARLIER FILING DATE: 1998-01-16
;  EARLIER APPLICATION NUMBER: US 09/008,185
;  EARLIER FILING DATE: 1998-01-16
;  EARLIER APPLICATION NUMBER: US 60/071,298
;  EARLIER FILING DATE: 1998-01-16
;  EARLIER APPLICATION NUMBER: US 60/071,669
;  EARLIER FILING DATE: 1998-01-16
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 16
;   LENGTH: 397
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-191-136-16

  Query Match             53.8%;  Score 42;  DB 3;  Length 397;
  Best Local Similarity   61.5%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 FNVENGNATPQLT 14
              || | ||  | ||
Db        184 FNFEKGNLLPNLT 196


RESULT 13
US-09-191-136-17
; Sequence 17, Application US/09191136B
; Patent No. 6214581
; GENERAL INFORMATION:
;  APPLICANT: Abbott Laboratories
;  APPLICANT: Lynch, Kevin J.
;  APPLICANT: Burgard, Edward C.
;  APPLICANT: Van Biesen, T.
;  TITLE OF INVENTION: Nucleic Acids Encoding A Functional
;  TITLE OF INVENTION: Human Purinoreceptor P2X3 and P2X6 And Methods Of Production
;  TITLE OF INVENTION: And Use Thereof
;  FILE REFERENCE: 6293.US.P1
;  CURRENT APPLICATION NUMBER: US/09/191,136B
;  CURRENT FILING DATE: 1998-11-13
;  EARLIER APPLICATION NUMBER: US 09/008,526
;  EARLIER FILING DATE: 1998-01-16
;  EARLIER APPLICATION NUMBER: US 09/008,185
;  EARLIER FILING DATE: 1998-01-16
;  EARLIER APPLICATION NUMBER: US 60/071,298
;  EARLIER FILING DATE: 1998-01-16
;  EARLIER APPLICATION NUMBER: US 60/071,669
;  EARLIER FILING DATE: 1998-01-16
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 17
;   LENGTH: 397
;   TYPE: PRT
;   ORGANISM: Rattus rattus
US-09-191-136-17

  Query Match             53.8%;  Score 42;  DB 3;  Length 397;
  Best Local Similarity   61.5%;  Pred. No. 18;
  Matches    8;  Conservative    0;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 FNVENGNATPQLT 14
              || | ||  | ||
Db        184 FNFEKGNLLPNLT 196


RESULT 14
US-08-747-221B-14
; Sequence 14, Application US/08747221B
; Patent No. 6063610
;  GENERAL INFORMATION:
;    APPLICANT:  Silver, Gary W.
;    APPLICANT:  Wisnewski, Nancy
;    TITLE OF INVENTION:  No. 6063610el Carboxylesterase Nucleic Acid
;    TITLE OF INVENTION:  Molecules, Proteins and Uses Thereof
;    NUMBER OF SEQUENCES:  66
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/747,221B
;      FILING DATE:  No. 6063610ember 12, 1996
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  FC-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  505 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-747-221B-14

  Query Match             53.8%;  Score 42;  DB 3;  Length 505;
  Best Local Similarity   50.0%;  Pred. No. 25;
  Matches    6;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          4 VENGNATPQLTK 15
              ::||| ||::|:
Db        447 IKNGNPTPEVTE 458


RESULT 15
US-09-005-051-14
; Sequence 14, Application US/09005051
; Patent No. 6291222
;  GENERAL INFORMATION:
;    APPLICANT:  Silver, Gary W.
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;    APPLICANT:  Wisnewski, Nancy
;    TITLE OF INVENTION:  No. 6291222el Carboxylesterase Nucleic Acid
;    TITLE OF INVENTION:  Molecules, Proteins and Uses Thereof
;    NUMBER OF SEQUENCES:  66
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Carol Talkington Verser, Ph.D.
;      ADDRESSEE:  Heska Corporation
;      STREET:  1825 Sharp Point Drive
;      CITY:  Fort Collins
;      STATE:  Colorado
;      COUNTRY:  USA
;      ZIP:  80525
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  Windows 95
;      SOFTWARE:  WordPerfect for Windows, Version 7.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/005,051
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/747,221
;      FILING DATE:  No. 6291222ember 12, 1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Verser, Carol Talkington
;      REGISTRATION NUMBER:  37,459
;      REFERENCE/DOCKET NUMBER:  FC-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  970/493-7272
;      TELEFAX:  970/484-9505
;  INFORMATION FOR SEQ ID NO:  14:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  505 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-005-051-14

  Query Match             53.8%;  Score 42;  DB 3;  Length 505;
  Best Local Similarity   50.0%;  Pred. No. 25;
  Matches    6;  Conservative    5;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          4 VENGNATPQLTK 15
              ::||| ||::|:
Db        447 IKNGNPTPEVTE 458


Search completed: April 19, 2004, 12:38:17
Job time : 14.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-10
Perfect score: 78
Sequence: 1 AFNVENGNATPQLTK 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	78	100.0	15	14	US-10-354-240-80	Sequence 80, Appl
2	78	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
3	67	85.9	367	10	US-09-847-208-109	Sequence 109, App
4	63	80.8	346	10	US-09-847-208-67	Sequence 67, Appl
5	62	79.5	375	10	US-09-847-208-58	Sequence 58, Appl
6	53	67.9	15	14	US-10-354-240-81	Sequence 81, Appl
7	52	66.7	15	14	US-10-354-240-79	Sequence 79, Appl
8	43	55.1	239	12	US-10-424-599-218827	Sequence 218827,
9	43	55.1	601	15	US-10-369-493-10849	Sequence 10849, A
10	41	52.6	601	15	US-10-369-493-923	Sequence 923, App
11	41	52.6	661	12	US-10-282-122A-76535	Sequence 76535, A
12	40	51.3	378	15	US-10-369-493-2463	Sequence 2463, Ap
13	40	51.3	530	15	US-10-321-802-4	Sequence 4, Appli
14	40	51.3	783	15	US-10-369-493-6134	Sequence 6134, Ap
15	40	51.3	791	15	US-10-353-690-58	Sequence 58, Appl
16	39	50.0	99	12	US-10-424-599-150839	Sequence 150839,
17	39	50.0	141	12	US-10-282-122A-74422	Sequence 74422, A
18	39	50.0	220	12	US-10-425-114-41747	Sequence 41747, A
19	39	50.0	225	12	US-10-425-114-53171	Sequence 53171, A
20	39	50.0	315	9	US-09-815-242-11261	Sequence 11261, A
21	39	50.0	315	12	US-10-282-122A-58558	Sequence 58558, A
22	39	50.0	315	12	US-10-282-122A-66940	Sequence 66940, A
23	39	50.0	568	15	US-10-369-493-19183	Sequence 19183, A
24	38	48.7	141	9	US-09-815-242-13517	Sequence 13517, A
25	38	48.7	141	12	US-10-282-122A-73858	Sequence 73858, A
26	38	48.7	344	12	US-10-425-114-46713	Sequence 46713, A
27	38	48.7	359	12	US-10-425-114-70575	Sequence 70575, A
28	38	48.7	501	14	US-10-029-386-32319	Sequence 32319, A
29	38	48.7	683	11	US-09-833-245-2050	Sequence 2050, Ap
30	38	48.7	683	15	US-10-266-829-76	Sequence 76, Appl
31	38	48.7	687	15	US-10-369-493-5922	Sequence 5922, Ap
32	38	48.7	739	9	US-09-974-298-159	Sequence 159, App
33	38	48.7	739	10	US-09-946-374-86	Sequence 86, Appl
34	38	48.7	739	12	US-10-147-493-478	Sequence 478, App
35	38	48.7	739	12	US-10-145-127-478	Sequence 478, App
36	38	48.7	739	12	US-10-160-503-478	Sequence 478, App
37	38	48.7	739	12	US-10-143-118-478	Sequence 478, App
38	38	48.7	739	12	US-10-144-993-478	Sequence 478, App
39	38	48.7	739	12	US-10-158-787-478	Sequence 478, App
40	38	48.7	739	12	US-10-140-024-478	Sequence 478, App
41	38	48.7	739	12	US-10-140-808-478	Sequence 478, App
42	38	48.7	739	12	US-10-006-485A-86	Sequence 86, Appl
43	38	48.7	739	12	US-10-013-907A-86	Sequence 86, Appl
44	38	48.7	739	12	US-10-015-499A-86	Sequence 86, Appl
45	38	48.7	739	12	US-10-013-910A-86	Sequence 86, Appl

ALIGNMENTS

RESULT 1
US-10-354-240-80
; Sequence 80, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 80
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 66
US-10-354-240-80

Query Match 100.0%; Score 78; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AFNVENGNATPQLTK 15
||||||||||||||
Db 1 AFNVENGNATPQLTK 15

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RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 78;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 2e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              |||||||||||||||
Db        347 AFNVENGNATPQLTK 361


RESULT 3
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

  Query Match             85.9%;  Score 67;  DB 10;  Length 367;
  Best Local Similarity   86.7%;  Pred. No. 0.0018;
  Matches   13;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              || |||||| |||||
Db        347 AFKVENGNAAPQLTK 361


RESULT 4
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Cupressus arizonica
US-09-847-208-67

  Query Match             80.8%;  Score 63;  DB 10;  Length 346;
  Best Local Similarity   80.0%;  Pred. No. 0.0086;
  Matches   12;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              || |||||| ||||:
Db        326 AFKVENGNAAPQLTQ 340


RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match             79.5%;  Score 62;  DB 10;  Length 375;
  Best Local Similarity   80.0%;  Pred. No. 0.014;
  Matches   12;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              || ||||:| |||||
Db        347 AFKVENGSAAPQLTK 361


RESULT 6
US-10-354-240-81
; Sequence 81, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 81
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
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;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 67
US-10-354-240-81

  Query Match             67.9%;  Score 53;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.015;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 NGNATPQLTK 15
              ||||||||||
Db          1 NGNATPQLTK 10


RESULT 7
US-10-354-240-79
; Sequence 79, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 79
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 65
US-10-354-240-79

  Query Match             66.7%;  Score 52;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.022;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNAT 10
              ||||||||||
Db          6 AFNVENGNAT 15


RESULT 8
US-10-424-599-218827
; Sequence 218827, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 218827
;   LENGTH: 239
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_39629C.1.pep
US-10-424-599-218827

  Query Match             55.1%;  Score 43;  DB 12;  Length 239;
  Best Local Similarity   66.7%;  Pred. No. 20;
  Matches    8;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQ 12
              ||| :|||  ||
Db        153 AFNHQNGNLIPQ 164


RESULT 9
US-10-369-493-10849
; Sequence 10849, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 10849
;   LENGTH: 601
;   TYPE: PRT
;   ORGANISM: Sphingomonas aromaticivorans
US-10-369-493-10849

  Query Match             55.1%;  Score 43;  DB 15;  Length 601;
  Best Local Similarity   53.8%;  Pred. No. 57;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQL 13
              ||:::||  || |
Db        570 AFSIDNGEMTPSL 582


RESULT 10
US-10-369-493-923
; Sequence 923, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 923
;   LENGTH: 601
;   TYPE: PRT
;   ORGANISM: Archaeoglobus fulgidus
US-10-369-493-923

  Query Match             52.6%;  Score 41;  DB 15;  Length 601;
  Best Local Similarity   53.3%;  Pred. No. 1.3e+02;
  Matches    8;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;
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Qy          1 AFNVENGNATPQLTK 15
              ||::| |  || | |
Db        568 AFSLEKGEITPTLKK 582


RESULT 11
US-10-282-122A-76535
; Sequence 76535, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 76535
;   LENGTH: 661
;   TYPE: PRT
;   ORGANISM: Treponema pallidum
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (634)..(634)
;   OTHER INFORMATION: X=any amino acid
US-10-282-122A-76535

  Query Match             52.6%;  Score 41;  DB 12;  Length 661;
  Best Local Similarity   57.1%;  Pred. No. 1.4e+02;
  Matches    8;  Conservative    2;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLT 14
              |: |  | |||:||
Db        543 AYVVREGGATPELT 556


RESULT 12
US-10-369-493-2463
; Sequence 2463, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 2463
;   LENGTH: 378
;   TYPE: PRT
;   ORGANISM: Schizosaccharomyces pombe
US-10-369-493-2463

  Query Match             51.3%;  Score 40;  DB 15;  Length 378;
  Best Local Similarity   40.0%;  Pred. No. 1.1e+02;
  Matches    6;  Conservative    5;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQLTK 15
              |:|:| |:  ||: :
Db        247 AYNIEVGDGIPQMVR 261


RESULT 13
US-10-321-802-4
; Sequence 4, Application US/10321802
; Publication No. US20030200563A1
; GENERAL INFORMATION:
;  APPLICANT: Butler, Karlene H.
;  APPLICANT:  Cahoon, Edgar B.
;  APPLICANT:  Cahoon, Rebecca E.
;  APPLICANT:  Famodu, Omolayo O.
;  APPLICANT:  Hall, Sarah E.
;  TITLE OF INVENTION: Phopholipid:diacylglycerol Acetyltransferases
;  FILE REFERENCE: BB1486 US NA
;  CURRENT APPLICATION NUMBER: US/10/321,802
;  CURRENT FILING DATE:  2002-12-17
;  NUMBER OF SEQ ID NOS: 36
;  SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
;   LENGTH: 530
;   TYPE: PRT
;   ORGANISM: Calendula officinalis
US-10-321-802-4

  Query Match             51.3%;  Score 40;  DB 15;  Length 530;
  Best Local Similarity   77.8%;  Pred. No. 1.7e+02;
  Matches    7;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          5 ENGNATPQL 13
              ||||:|| |
Db        280 ENGNSTPML 288


RESULT 14
US-10-369-493-6134
; Sequence 6134, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
;  APPLICANT: Cao, Yongwei
;  APPLICANT:  Hinkle, Gregory J.
;  APPLICANT:  Slater, Steven C.
;  APPLICANT:  Goldman, Barry S.
;  APPLICANT:  Chen, Xianfeng
;  TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;  TITLE OF INVENTION:  PLANTS WITH IMPROVED PROPERTIES
;  FILE REFERENCE: 38-10(52052)B
;  CURRENT APPLICATION NUMBER: US/10/369,493
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;  CURRENT FILING DATE:  2003-02-28
;  PRIOR APPLICATION NUMBER: US 60/360,039
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 6134
;   LENGTH: 783
;   TYPE: PRT
;   ORGANISM: Caenorhabditis elegans
US-10-369-493-6134

  Query Match             51.3%;  Score 40;  DB 15;  Length 783;
  Best Local Similarity   61.5%;  Pred. No. 2.6e+02;
  Matches    8;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 AFNVENGNATPQL 13
              ||: |||  || |
Db        739 AFSAENGLTTPTL 751


RESULT 15
US-10-353-690-58
; Sequence 58, Application US/10353690
; Publication No. US20030215840A1
; GENERAL INFORMATION:
;  APPLICANT: Logan, Thomas Joseph
;  APPLICANT:  Chun, Miyoung
;  APPLICANT:  Galvin, Katherine M.
;  APPLICANT:  Healy, Aileen
;  APPLICANT:  Acton, Susan L.
;  APPLICANT:  Donoghue, Mary
;  APPLICANT:  Stagliano, Nancy
;  APPLICANT:  Perodin, Jacquelin
;  APPLICANT:  Rodrigue-Way, Amelie
;  TITLE OF INVENTION: Methods and compositions for treating
;  TITLE OF INVENTION:  cardiovascular disease using 1682, 6169, 6193, 7771, 14395,
;  TITLE OF INVENTION:  29002, 33216, 43726, 69292, 26156, 32427, 2402, 7747, 1720,
;  TITLE OF INVENTION:  9151, 60491, 1371, 7077, 33207, 1419, 18036, 16105, 38650,
;  TITLE OF INVENTION:  14245, 58848, 1870, 25856, 32394, 3484, 345, 9252, 9135,
;  TITLE OF INVENTION:  10532, 18610, 8165, 2448, 2445, 64624, 84237, 8912, 2868,
;  TITLE OF INVENTION:  283, 2554, 9464, 17799, 26686, 43848, 32135, 12208, 2914,
;  TITLE OF INVENTION:  51130, 19489, 21833, 2917, 59590, 15992, 2094, 2252, 3474,
;  TITLE OF INVENTION:  9792, 15400, 1452 or 6585 molecules
;  FILE REFERENCE: MPI02-018P1RNOMNIM
;  CURRENT APPLICATION NUMBER: US/10/353,690
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: 60/353,224
;  PRIOR FILING DATE: 2002-02-01
;  PRIOR APPLICATION NUMBER: 60/364,529
;  PRIOR FILING DATE: 2002-03-15
;  PRIOR APPLICATION NUMBER: 60/373,861
;  PRIOR FILING DATE: 2002-04-19
;  PRIOR APPLICATION NUMBER: 60/376,287
;  PRIOR FILING DATE: 2002-04-29
;  PRIOR APPLICATION NUMBER: 60/388,080
;  PRIOR FILING DATE: 2002-06-12
;  PRIOR APPLICATION NUMBER: 60/390,971
;  PRIOR FILING DATE: 2002-06-24
;  PRIOR APPLICATION NUMBER: 60/394,130
;  PRIOR FILING DATE: 2002-07-03
;  PRIOR APPLICATION NUMBER: 60/394,797
;  PRIOR FILING DATE: 2002-07-10
;  PRIOR APPLICATION NUMBER: 60/404,904
;  PRIOR FILING DATE: 2002-08-21
;  PRIOR APPLICATION NUMBER: 60/405,450
;  PRIOR FILING DATE: 2002-08-23
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 126
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 791
;   TYPE: PRT
;   ORGANISM: Homo Sapiens
US-10-353-690-58

  Query Match             51.3%;  Score 40;  DB 15;  Length 791;
  Best Local Similarity   58.3%;  Pred. No. 2.6e+02;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 FNVENGNATPQL 13
              ||:||  || |
Db        465 FNLDNGGPTPGL 476


Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-9
Perfect score: 76
Sequence: 1 YAIGGSSNPTILSEG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	76	100.0	20	3	US-08-467-023-51	Sequence 51, Appl
2	76	100.0	90	3	US-08-467-023-64	Sequence 64, Appl
3	76	100.0	367	3	US-08-467-023-95	Sequence 95, Appl
4	76	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
5	73	96.1	43	1	US-08-290-448A-26	Sequence 26, Appl
6	73	96.1	43	1	US-08-290-448A-26	Sequence 26, Appl
7	73	96.1	43	1	US-08-175-069A-26	Sequence 26, Appl
8	73	96.1	43	4	US-08-461-939B-26	Sequence 26, Appl
9	73	96.1	43	4	US-08-464-000-26	Sequence 26, Appl
10	73	96.1	45	1	US-08-290-448A-25	Sequence 25, Appl
11	73	96.1	45	1	US-08-290-448A-25	Sequence 25, Appl
12	73	96.1	45	1	US-08-175-069A-25	Sequence 25, Appl
13	73	96.1	45	4	US-08-461-939B-25	Sequence 25, Appl
14	73	96.1	45	4	US-08-464-000-25	Sequence 25, Appl
15	73	96.1	388	1	US-08-290-448A-80	Sequence 80, Appl
16	73	96.1	388	1	US-08-290-448A-80	Sequence 80, Appl
17	73	96.1	388	1	US-08-175-069A-80	Sequence 80, Appl
18	73	96.1	388	4	US-08-461-939B-80	Sequence 80, Appl
19	73	96.1	388	4	US-08-464-000-80	Sequence 80, Appl
20	70	92.1	43	1	US-08-290-448A-14	Sequence 14, Appl
21	70	92.1	43	1	US-08-290-448A-14	Sequence 14, Appl
22	70	92.1	43	1	US-08-175-069A-14	Sequence 14, Appl
23	70	92.1	43	4	US-08-461-939B-14	Sequence 14, Appl
24	70	92.1	43	4	US-08-464-000-14	Sequence 14, Appl
25	69	90.8	370	3	US-08-467-023-97	Sequence 97, Appl
26	65	85.5	45	1	US-08-290-448A-12	Sequence 12, Appl
27	65	85.5	45	1	US-08-290-448A-12	Sequence 12, Appl
28	65	85.5	45	1	US-08-175-069A-12	Sequence 12, Appl
29	65	85.5	45	4	US-08-461-939B-12	Sequence 12, Appl
30	65	85.5	45	4	US-08-464-000-12	Sequence 12, Appl
31	65	85.5	387	1	US-08-290-448A-72	Sequence 72, Appl
32	65	85.5	387	1	US-08-290-448A-72	Sequence 72, Appl
33	65	85.5	387	1	US-08-175-069A-72	Sequence 72, Appl
34	65	85.5	387	4	US-08-461-939B-72	Sequence 72, Appl
35	65	85.5	387	4	US-08-464-000-72	Sequence 72, Appl
36	65	85.5	391	1	US-08-290-448A-59	Sequence 59, Appl
37	65	85.5	391	1	US-08-290-448A-59	Sequence 59, Appl
38	65	85.5	391	1	US-08-175-069A-59	Sequence 59, Appl
39	65	85.5	391	4	US-08-461-939B-59	Sequence 59, Appl
40	65	85.5	391	4	US-08-464-000-59	Sequence 59, Appl
41	65	85.5	398	1	US-08-290-448A-74	Sequence 74, Appl
42	65	85.5	398	1	US-08-290-448A-74	Sequence 74, Appl
43	65	85.5	398	1	US-08-175-069A-74	Sequence 74, Appl
44	65	85.5	398	4	US-08-461-939B-74	Sequence 74, Appl
45	65	85.5	398	4	US-08-464-000-74	Sequence 74, Appl

ALIGNMENTS

```
RESULT 1
US-08-467-023-51
; Sequence 51, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  51:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
```

US-08-467-023-51

Query Match 100.0%; Score 76; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAIGGSSNPTILSEG 15
||||||||||||||||
Db 1 YAIGGSSNPTILSEG 15

RESULT 2
US-08-467-023-64
; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 90 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-64

Query Match 100.0%; Score 76; DB 3; Length 90;
Best Local Similarity 100.0%; Pred. No. 7.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAIGGSSNPTILSEG 15
||||||||||||||||
Db 61 YAIGGSSNPTILSEG 75

RESULT 3

US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 367 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-95

Query Match 100.0%; Score 76; DB 3; Length 367;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 YAIGGSSNPTILSEG 15
||||||||||||||||
Db 272 YAIGGSSNPTILSEG 286

RESULT 4
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

```
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 76;  DB 3;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 4e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||||
Db        272 YAIGGSSNPTILSEG 286


RESULT 5
US-08-290-448A-26
; Sequence 26, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  43 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-26

  Query Match             96.1%;  Score 73;  DB 1;  Length 43;
  Best Local Similarity   93.3%;  Pred. No. 1.1e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||:|
Db         20 YAIGGSSNPTILSQG 34


RESULT 6
US-08-290-448A-26
; Sequence 26, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  43 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
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;    FRAGMENT TYPE:  internal
US-08-290-448A-26

  Query Match             96.1%;  Score 73;  DB 1;  Length 43;
  Best Local Similarity   93.3%;  Pred. No. 1.1e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||||:|
Db         20 YAIGGSSNPTILSQG 34


RESULT 7
US-08-175-069A-26
; Sequence 26, Application US/08175069A
; Patent No. 5776761
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/175,069A
;      FILING DATE:  December 29, 1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018DV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  43 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-175-069A-26

  Query Match             96.1%;  Score 73;  DB 1;  Length 43;
  Best Local Similarity   93.3%;  Pred. No. 1.1e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||||:|
Db         20 YAIGGSSNPTILSQG 34


RESULT 8
US-08-461-939B-26
; Sequence 26, Application US/08461939B
; Patent No. 6335019
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Methods For Treating Sensitivity To A
;    TITLE OF INVENTION:  Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  28 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/461,939B
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/464,000
;      FILING DATE:  05-JUN-1995
;      APPLICATION NUMBER:  US 08/290,448
;      FILING DATE:  15-AUG-1994
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  29-MAY-1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  17-MAR-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CNDV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)742-4214
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  43 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-461-939B-26

  Query Match             96.1%;  Score 73;  DB 4;  Length 43;
  Best Local Similarity   93.3%;  Pred. No. 1.1e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||||:|
Db         20 YAIGGSSNPTILSQG 34


RESULT 9
US-08-464-000-26
; Sequence 26, Application US/08464000
; Patent No. 6335020
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Peptides from Ragweed Pollen
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
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;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/464,000
;       FILING DATE:  05-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/290,448
;       FILING DATE:  15-AUG-1994
;       APPLICATION NUMBER:  US 07/529,951
;       FILING DATE:  29-MAY-1990
;       APPLICATION NUMBER:  US 07/325,365
;       FILING DATE:  17-MAR-1989
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Amy E. Mandragouras
;       REGISTRATION NUMBER:  36,207
;       REFERENCE/DOCKET NUMBER:  IMI-018CN2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  26:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  43 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-464-000-26

  Query Match             96.1%;  Score 73;  DB 4;  Length 43;
  Best Local Similarity   93.3%;  Pred. No. 1.1e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||:|
Db         20 YAIGGSSNPTILSQG 34


RESULT 10
US-08-290-448A-25
; Sequence 25, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  45 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-25

  Query Match             96.1%;  Score 73;  DB 1;  Length 45;
  Best Local Similarity   93.3%;  Pred. No. 1.2e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||:|
Db         21 YAIGGSSNPTILSQG 35


RESULT 11
US-08-290-448A-25
; Sequence 25, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  45 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-25

  Query Match             96.1%;  Score 73;  DB 1;  Length 45;
  Best Local Similarity   93.3%;  Pred. No. 1.2e-05;
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  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||:|
Db         21 YAIGGSSNPTILSQG 35


RESULT 12
US-08-175-069A-25
; Sequence 25, Application US/08175069A
; Patent No. 5776761
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/175,069A
;      FILING DATE:  December 29, 1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018DV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  45 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-175-069A-25

  Query Match             96.1%;  Score 73;  DB 1;  Length 45;
  Best Local Similarity   93.3%;  Pred. No. 1.2e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||:|
Db         21 YAIGGSSNPTILSQG 35


RESULT 13
US-08-461-939B-25
; Sequence 25, Application US/08461939B
; Patent No. 6335019
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Methods For Treating Sensitivity To A
;    TITLE OF INVENTION:  Protein Allergen Using Peptides Which Inlcude A T Cell Epitop
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  28 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/461,939B
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/464,000
;      FILING DATE:  05-JUN-1995
;      APPLICATION NUMBER:  US 08/290,448
;      FILING DATE:  15-AUG-1994
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  29-MAY-1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  17-MAR-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CNDV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)742-4214
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  45 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-461-939B-25

  Query Match             96.1%;  Score 73;  DB 4;  Length 45;
  Best Local Similarity   93.3%;  Pred. No. 1.2e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||:|
Db         21 YAIGGSSNPTILSQG 35


RESULT 14
US-08-464-000-25
; Sequence 25, Application US/08464000
; Patent No. 6335020
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Peptides from Ragweed Pollen
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/464,000
;      FILING DATE:  05-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/290,448
;      FILING DATE:  15-AUG-1994
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  29-MAY-1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  17-MAR-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  45 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-464-000-25

  Query Match             96.1%;  Score 73;  DB 4;  Length 45;
  Best Local Similarity   93.3%;  Pred. No. 1.2e-05;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||||:|
Db         21 YAIGGSSNPTILSQG 35


RESULT 15
US-08-290-448A-80
; Sequence 80, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  80:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  388 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-290-448A-80

  Query Match             96.1%;  Score 73;  DB 1;  Length 388;
  Best Local Similarity   93.3%;  Pred. No. 0.00014;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||||:|
Db        287 YAIGGSSNPTILSQG 301


Search completed: April 19, 2004, 12:38:17
Job time : 14.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-9
Perfect score: 76
Sequence: 1 YAIGGSSNPTILSEG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
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8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	76	100.0	15	14	US-10-354-240-65	Sequence 65, Appl
2	76	100.0	346	10	US-09-847-208-67	Sequence 67, Appl
3	76	100.0	367	10	US-09-847-208-109	Sequence 109, App
4	76	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
5	76	100.0	375	10	US-09-847-208-58	Sequence 58, Appl
6	73	96.1	397	10	US-09-847-208-17	Sequence 17, Appl
7	70	92.1	255	12	US-10-425-114-44652	Sequence 44652, A
8	70	92.1	271	12	US-10-424-599-171297	Sequence 171297,
9	67	88.2	131	12	US-10-424-599-163549	Sequence 163549,
10	67	88.2	443	12	US-10-424-599-162863	Sequence 162863,
11	65	85.5	263	12	US-10-424-599-191786	Sequence 191786,
12	65	85.5	396	10	US-09-847-208-13	Sequence 13, Appl
13	65	85.5	398	10	US-09-847-208-14	Sequence 14, Appl
14	63	82.9	247	12	US-10-424-599-243902	Sequence 243902,
15	63	82.9	404	12	US-10-424-599-190695	Sequence 190695,
16	63	82.9	450	12	US-10-424-599-234547	Sequence 234547,
17	62	81.6	392	10	US-09-847-208-16	Sequence 16, Appl
18	61	80.3	435	12	US-10-424-599-239482	Sequence 239482,
19	60	78.9	397	10	US-09-847-208-15	Sequence 15, Appl
20	58	76.3	409	12	US-10-424-599-279664	Sequence 279664,
21	57	75.0	227	12	US-10-425-114-61944	Sequence 61944, A
22	54	71.1	378	12	US-10-424-599-149825	Sequence 149825,
23	53	69.7	15	14	US-10-354-240-64	Sequence 64, Appl
24	52	68.4	186	12	US-10-424-599-244588	Sequence 244588,
25	50	65.8	876	9	US-09-938-803-19	Sequence 19, Appl
26	50	65.8	908	12	US-10-276-774-2239	Sequence 2239, Ap
27	49	64.5	15	14	US-10-354-240-66	Sequence 66, Appl
28	48	63.2	108	12	US-10-424-599-179761	Sequence 179761,
29	44	57.9	124	12	US-10-424-599-241651	Sequence 241651,
30	44	57.9	127	12	US-10-424-599-208220	Sequence 208220,
31	44	57.9	203	15	US-10-369-493-18883	Sequence 18883, A
32	44	57.9	203	15	US-10-369-493-18891	Sequence 18891, A
33	44	57.9	440	14	US-10-156-761-9438	Sequence 9438, Ap
34	42	55.3	304	12	US-10-282-122A-75344	Sequence 75344, A
35	42	55.3	506	15	US-10-369-493-17962	Sequence 17962, A
36	42	55.3	576	12	US-10-425-114-65411	Sequence 65411, A
37	41	53.9	78	12	US-10-424-599-217670	Sequence 217670,
38	41	53.9	165	12	US-10-424-599-219035	Sequence 219035,
39	41	53.9	235	12	US-10-424-599-199609	Sequence 199609,
40	41	53.9	235	12	US-10-424-599-199610	Sequence 199610,
41	41	53.9	289	12	US-10-424-599-166163	Sequence 166163,
42	41	53.9	516	15	US-10-369-493-16885	Sequence 16885, A
43	40	52.6	270	12	US-10-206-576-188	Sequence 188, App
44	40	52.6	292	12	US-10-206-576-186	Sequence 186, App
45	40	52.6	789	15	US-10-369-493-12381	Sequence 12381, A

ALIGNMENTS

RESULT 1
US-10-354-240-65
; Sequence 65, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 65
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 51
US-10-354-240-65

Query Match 100.0%; Score 76; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||||
Db          1 YAIGGSSNPTILSEG 15
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RESULT 2
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Cupressus arizonica
US-09-847-208-67

  Query Match             100.0%;  Score 76;  DB 10;  Length 346;
  Best Local Similarity   100.0%;  Pred. No. 0.00015;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||||
Db        251 YAIGGSSNPTILSEG 265


RESULT 3
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

  Query Match             100.0%;  Score 76;  DB 10;  Length 367;
  Best Local Similarity   100.0%;  Pred. No. 0.00017;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||||
Db        272 YAIGGSSNPTILSEG 286


RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 76;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 0.00017;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||||
Db        272 YAIGGSSNPTILSEG 286


RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match             100.0%;  Score 76;  DB 10;  Length 375;
  Best Local Similarity   100.0%;  Pred. No. 0.00017;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||||||||||
Db        272 YAIGGSSNPTILSEG 286


RESULT 6
US-09-847-208-17
; Sequence 17, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 397
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-17

  Query Match             96.1%;  Score 73;  DB 10;  Length 397;
  Best Local Similarity   93.3%;  Pred. No. 0.00058;
  Matches   14;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 YAIGGSSNPTILSEG 15
              ||||||||||||||:|
Db        296 YAIGGSSNPTILSQG 310


RESULT 7
US-10-425-114-44652
; Sequence 44652, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44652
;   LENGTH: 255
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700903387_FLI.pep
US-10-425-114-44652

  Query Match             92.1%;  Score 70;  DB 12;  Length 255;
  Best Local Similarity   86.7%;  Pred. No. 0.0011;
  Matches   13;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||  ||||:|||
Db        153 YAIGGSKNPTIISEG 167


RESULT 8
US-10-424-599-171297
; Sequence 171297, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 171297
;   LENGTH: 271
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_125697C.1.pep
US-10-424-599-171297

  Query Match             92.1%;  Score 70;  DB 12;  Length 271;
  Best Local Similarity   86.7%;  Pred. No. 0.0012;
  Matches   13;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||  ||||:|||
Db        169 YAIGGSKNPTIISEG 183


RESULT 9
US-10-424-599-163549
; Sequence 163549, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 163549
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(131)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_118703C.1.pep
US-10-424-599-163549

  Query Match             88.2%;  Score 67;  DB 12;  Length 131;
  Best Local Similarity   86.7%;  Pred. No. 0.0018;
  Matches   13;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||  |||||:|
Db         31 YAIGGSSGPTILSQG 45


RESULT 10
US-10-424-599-162863
; Sequence 162863, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162863
;   LENGTH: 443
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_118083C.1.pep
US-10-424-599-162863

  Query Match             88.2%;  Score 67;  DB 12;  Length 443;
  Best Local Similarity   86.7%;  Pred. No. 0.0068;
  Matches   13;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||||  |||||:|
Db        343 YAIGGSSGPTILSQG 357


RESULT 11
US-10-424-599-191786
; Sequence 191786, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
```

```
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 191786
;   LENGTH: 263
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_15202C.1.pep
US-10-424-599-191786

  Query Match             85.5%;  Score 65;  DB 12;  Length 263;
  Best Local Similarity   80.0%;  Pred. No. 0.0084;
  Matches   12;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              |||||| :|||:|||
Db        162 YAIGGSKHPTIISEG 176


RESULT 12
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 396
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

  Query Match             85.5%;  Score 65;  DB 10;  Length 396;
  Best Local Similarity   80.0%;  Pred. No. 0.013;
  Matches   12;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||::|||||:|
Db        295 YAIGGSASPTILSQG 309


RESULT 13
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 398
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-14

  Query Match             85.5%;  Score 65;  DB 10;  Length 398;
  Best Local Similarity   86.7%;  Pred. No. 0.013;
  Matches   13;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||| |||||:|
Db        297 YAIGGSSAPTILSQG 311


RESULT 14
US-10-424-599-243902
; Sequence 243902, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 243902
;   LENGTH: 247
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_62271C.1.pep
US-10-424-599-243902

  Query Match             82.9%;  Score 63;  DB 12;  Length 247;
  Best Local Similarity   80.0%;  Pred. No. 0.017;
  Matches   12;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||:|||| |:|
Db         67 YAIGGSANPTINSQG 81


RESULT 15
US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
;   LENGTH: 404
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep
US-10-424-599-190695

  Query Match             82.9%;  Score 63;  DB 12;  Length 404;
  Best Local Similarity   80.0%;  Pred. No. 0.029;
  Matches   12;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 YAIGGSSNPTILSEG 15
              ||||||:|||| |:|
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Db 304 YAIGGSANPTINSQG 318

Search completed: April 19, 2004, 11:29:28
Job time : 68.3163 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-8
Perfect score: 78
Sequence: 1 KSMKVTVAFNQFGPN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	78	100.0	19	3	US-08-467-023-227	Sequence 227, App
2	78	100.0	19	3	US-08-467-023-236	Sequence 236, App
3	78	100.0	20	3	US-08-467-023-47	Sequence 47, Appl
4	78	100.0	20	3	US-08-467-023-230	Sequence 230, App
5	78	100.0	21	3	US-08-467-023-231	Sequence 231, App
6	78	100.0	23	3	US-08-467-023-226	Sequence 226, App
7	78	100.0	23	3	US-08-467-023-233	Sequence 233, App
8	78	100.0	24	3	US-08-467-023-224	Sequence 224, App
9	78	100.0	26	3	US-08-467-023-83	Sequence 83, Appl
10	78	100.0	26	3	US-08-467-023-84	Sequence 84, Appl
11	78	100.0	26	3	US-08-467-023-86	Sequence 86, Appl
12	78	100.0	26	3	US-08-467-023-232	Sequence 232, App
13	78	100.0	28	3	US-08-467-023-81	Sequence 81, Appl
14	78	100.0	28	3	US-08-467-023-82	Sequence 82, Appl
15	78	100.0	28	3	US-08-467-023-85	Sequence 85, Appl
16	78	100.0	28	3	US-08-467-023-217	Sequence 217, App
17	78	100.0	28	3	US-08-467-023-219	Sequence 219, App
18	78	100.0	28	3	US-08-467-023-223	Sequence 223, App
19	78	100.0	29	3	US-08-467-023-220	Sequence 220, App
20	78	100.0	29	3	US-08-467-023-222	Sequence 222, App
21	78	100.0	30	3	US-08-467-023-79	Sequence 79, Appl
22	78	100.0	30	3	US-08-467-023-80	Sequence 80, Appl
23	78	100.0	30	3	US-08-467-023-221	Sequence 221, App
24	78	100.0	36	3	US-08-467-023-78	Sequence 78, Appl
25	78	100.0	50	3	US-08-467-023-69	Sequence 69, Appl
26	78	100.0	90	3	US-08-467-023-64	Sequence 64, Appl
27	78	100.0	367	3	US-08-467-023-95	Sequence 95, Appl
28	78	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
29	75	96.2	26	3	US-08-467-023-228	Sequence 228, App
30	75	96.2	26	3	US-08-467-023-229	Sequence 229, App
31	74	94.9	19	3	US-08-467-023-121	Sequence 121, App
32	74	94.9	19	3	US-08-467-023-122	Sequence 122, App
33	74	94.9	23	3	US-08-467-023-225	Sequence 225, App
34	73	93.6	28	3	US-08-467-023-218	Sequence 218, App
35	71	91.0	21	3	US-08-467-023-123	Sequence 123, App
36	70	89.7	19	3	US-08-467-023-126	Sequence 126, App
37	70	89.7	21	3	US-08-467-023-124	Sequence 124, App
38	70	89.7	21	3	US-08-467-023-125	Sequence 125, App
39	70	89.7	21	3	US-08-467-023-127	Sequence 127, App
40	69	88.5	17	3	US-08-467-023-257	Sequence 257, App
41	67	85.9	370	3	US-08-467-023-97	Sequence 97, Appl
42	65	83.3	13	3	US-08-467-023-235	Sequence 235, App
43	65	83.3	15	3	US-08-467-023-255	Sequence 255, App
44	65	83.3	15	3	US-08-467-023-256	Sequence 256, App
45	65	83.3	16	3	US-08-467-023-248	Sequence 248, App

ALIGNMENTS

RESULT 1
US-08-467-023-227
; Sequence 227, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 227:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-227

Query Match 100.0%; Score 78; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
||||||||||||||||
Db 3 KSMKVTVAFNQFGPN 17

RESULT 2
US-08-467-023-236
; Sequence 236, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 236:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-236

Query Match 100.0%; Score 78; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 4.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
||||||||||||||||
Db 3 KSMKVTVAFNQFGPN 17

RESULT 3
US-08-467-023-47
; Sequence 47, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-47

Query Match 100.0%; Score 78; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
||||||||||||||||
Db 1 KSMKVTVAFNQFGPN 15

RESULT 4
US-08-467-023-230
; Sequence 230, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;

```
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  230:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-230

  Query Match             100.0%;  Score 78;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 4.8e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          4 KSMKVTVAFNQFGPN 18


RESULT 5
US-08-467-023-231
; Sequence 231, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  231:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-231

  Query Match             100.0%;  Score 78;  DB 3;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 5.1e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          4 KSMKVTVAFNQFGPN 18


RESULT 6
US-08-467-023-226
; Sequence 226, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
```

```
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  226:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  23 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-226

  Query Match           100.0%;  Score 78;  DB 3;  Length 23;
  Best Local Similarity  100.0%;  Pred. No. 5.6e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              ||||||||||||||||
Db          3 KSMKVTVAFNQFGPN 17


RESULT 7
US-08-467-023-233
; Sequence 233, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  233:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  23 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-233

  Query Match           100.0%;  Score 78;  DB 3;  Length 23;
  Best Local Similarity  100.0%;  Pred. No. 5.6e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              ||||||||||||||||
Db          4 KSMKVTVAFNQFGPN 18


RESULT 8
US-08-467-023-224
; Sequence 224, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  224:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  24 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-224

  Query Match           100.0%;  Score 78;  DB 3;  Length 24;
  Best Local Similarity  100.0%;  Pred. No. 5.9e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              ||||||||||||||||
Db          3 KSMKVTVAFNQFGPN 17
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RESULT 9
US-08-467-023-83
; Sequence 83, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  83:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-83

  Query Match             100.0%;  Score 78;  DB 3;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 6.5e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


RESULT 10
US-08-467-023-84
; Sequence 84, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  84:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-84

  Query Match             100.0%;  Score 78;  DB 3;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 6.5e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


RESULT 11
US-08-467-023-86
; Sequence 86, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
```

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;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  86:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-86

  Query Match             100.0%;  Score 78;  DB 3;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 6.5e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              ||||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


RESULT 12
US-08-467-023-232
; Sequence 232, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  232:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  26 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-232

  Query Match             100.0%;  Score 78;  DB 3;  Length 26;
  Best Local Similarity   100.0%;  Pred. No. 6.5e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              ||||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


RESULT 13
US-08-467-023-81
; Sequence 81, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  81:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  28 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
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;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-81

  Query Match             100.0%;  Score 78;  DB 3;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 7e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


RESULT 14
US-08-467-023-82
; Sequence 82, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  82:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  28 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-82

  Query Match             100.0%;  Score 78;  DB 3;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 7e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


RESULT 15
US-08-467-023-85
; Sequence 85, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  85:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  28 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-85

  Query Match             100.0%;  Score 78;  DB 3;  Length 28;
  Best Local Similarity   100.0%;  Pred. No. 7e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15


Search completed: April 19, 2004, 12:38:17
Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-7
Perfect score: 86
Sequence: 1 LFFNHHKVMLLGHDD 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	86	100.0	20	3	US-08-467-023-45	Sequence 45, Appl
2	86	100.0	50	3	US-08-467-023-69	Sequence 69, Appl
3	86	100.0	90	3	US-08-467-023-64	Sequence 64, Appl
4	86	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
5	82	95.3	367	3	US-08-467-023-95	Sequence 95, Appl
6	58	67.4	370	3	US-08-467-023-97	Sequence 97, Appl
7	56	65.1	20	3	US-08-467-023-44	Sequence 44, Appl
8	49	57.0	318	4	US-09-489-039A-13319	Sequence 13319, A
9	49	57.0	359	3	US-09-198-955A-2	Sequence 2, Appli
10	49	57.0	359	3	US-09-395-858A-2	Sequence 2, Appli
11	49	57.0	359	4	US-09-694-531-2	Sequence 2, Appli
12	49	57.0	359	4	US-10-072-152-2	Sequence 2, Appli
13	49	57.0	509	3	US-09-198-955A-6	Sequence 6, Appli
14	49	57.0	509	4	US-09-694-531-6	Sequence 6, Appli
15	49	57.0	509	4	US-10-072-152-6	Sequence 6, Appli
16	47	54.7	739	4	US-09-543-681A-6688	Sequence 6688, Ap
17	43	50.0	41	2	US-08-773-008-5	Sequence 5, Appli
18	42	48.8	160	4	US-09-543-681A-7581	Sequence 7581, Ap
19	42	48.8	1471	3	US-08-755-587-188	Sequence 188, App
20	41	47.7	40	3	US-08-256-747C-77	Sequence 77, Appl
21	41	47.7	257	3	US-08-256-747C-76	Sequence 76, Appl
22	41	47.7	263	1	US-07-927-071-2	Sequence 2, Appli
23	41	47.7	992	1	US-08-127-499A-1	Sequence 1, Appli
24	41	47.7	992	1	US-08-482-847-1	Sequence 1, Appli
25	41	47.7	1063	1	US-08-093-453B-3	Sequence 3, Appli
26	41	47.7	1063	1	US-08-127-499A-8	Sequence 8, Appli
27	41	47.7	1063	1	US-08-482-847-8	Sequence 8, Appli
28	40	46.5	71	4	US-09-543-681A-4920	Sequence 4920, Ap
29	40	46.5	339	3	US-08-968-563-14	Sequence 14, Appl
30	40	46.5	339	3	US-08-969-683A-14	Sequence 14, Appl
31	40	46.5	339	4	US-09-297-928-10	Sequence 10, Appl
32	39	45.3	109	4	US-09-621-976-5753	Sequence 5753, Ap
33	39	45.3	116	2	US-08-846-134-1	Sequence 1, Appli
34	39	45.3	116	4	US-09-010-147B-10	Sequence 10, Appl
35	39	45.3	391	1	US-08-290-448A-59	Sequence 59, Appl
36	39	45.3	391	1	US-08-290-448A-59	Sequence 59, Appl
37	39	45.3	391	1	US-08-175-069A-59	Sequence 59, Appl
38	39	45.3	391	4	US-08-461-939B-59	Sequence 59, Appl
39	39	45.3	391	4	US-08-464-000-59	Sequence 59, Appl
40	39	45.3	398	1	US-08-290-448A-74	Sequence 74, Appl
41	39	45.3	398	1	US-08-290-448A-74	Sequence 74, Appl
42	39	45.3	398	1	US-08-175-069A-74	Sequence 74, Appl
43	39	45.3	398	4	US-08-461-939B-74	Sequence 74, Appl
44	39	45.3	398	4	US-08-464-000-74	Sequence 74, Appl
45	39	45.3	510	4	US-09-252-991A-29467	Sequence 29467, A

ALIGNMENTS

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RESULT 1
US-08-467-023-45
; Sequence 45, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  45:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-45

Query Match 100.0%; Score 86; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
||||||||||||||||
Db 1 LFFNHHKVMLLGHDD 15

RESULT 2
US-08-467-023-69
; Sequence 69, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-69

Query Match 100.0%; Score 86; DB 3; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.5e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
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Db 1 LFFNHHKVMLLGHDD 15

RESULT 3

US-08-467-023-64
; Sequence 64, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 90 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-64

Query Match 100.0%; Score 86; DB 3; Length 90;
Best Local Similarity 100.0%; Pred. No. 2.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
||||||||||||||||
Db 1 LFFNHHKVMLLGHDD 15

RESULT 4
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;

```
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 86;  DB 3;  Length 374;
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  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LFFNHHKVMLLGHDD 15
              |||||||||||||||
Db        212 LFFNHHKVMLLGHDD 226


RESULT 5
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             95.3%;  Score 82;  DB 3;  Length 367;
  Best Local Similarity   100.0%;  Pred. No. 5.8e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              ||||||||||||||
Db        213 FFNHHKVMLLGHDD 226


RESULT 6
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
```

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;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             67.4%;  Score 58;  DB 3;  Length 370;
  Best Local Similarity   71.4%;  Pred. No. 0.055;
  Matches   10;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
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Db        213 FFDHDEVMLLGHSD 226


RESULT 7
US-08-467-023-44
; Sequence 44, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  44:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-44

  Query Match             65.1%;  Score 56;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0052;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LFFNHHKVML 10
              ||||||||||
Db         11 LFFNHHKVML 20


RESULT 8
US-09-489-039A-13319
; Sequence 13319, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
;  APPLICANT:  Gary Breton et. al
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
;  TITLE OF INVENTION:  PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  2709.2004001
;  CURRENT APPLICATION NUMBER: US/09/489,039A
;  CURRENT FILING DATE:  2000-01-27
;  PRIOR APPLICATION NUMBER:  US 60/117,747
;  PRIOR FILING DATE:  1999-01-29
;  NUMBER OF SEQ ID NOS:  14342
; SEQ ID NO 13319
;   LENGTH: 318
;   TYPE: PRT
;   ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13319

  Query Match             57.0%;  Score 49;  DB 4;  Length 318;
  Best Local Similarity   53.3%;  Pred. No. 1.5;
  Matches    8;  Conservative    4;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 LFFNHHKVMLLGHDD 15
              | ::|| :||: |||
Db        167 LAYHHHLMMLVEHDD 181


RESULT 9
US-09-198-955A-2
; Sequence 2, Application US/09198955A
; Patent No. 6187580
; GENERAL INFORMATION:
;  APPLICANT:  Andersen, Lene N.
;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Lange, Niels E.
;  APPLICANT:  Bjornvad, Mads E.
;  APPLICANT:  Moller, Soren
;  APPLICANT:  Glad, Sanne O. S.
;  APPLICANT:  Kauppinen, Markus S.
;  APPLICANT:  Schnorr, Kirk
;  APPLICANT:  Kongsbak, Lars
;  TITLE OF INVENTION:  No. 6187580el Pectate Lyases
;  FILE REFERENCE:  5378.200-US
;  CURRENT APPLICATION NUMBER: US/09/198,955A
;  CURRENT FILING DATE:  1998-11-24
;  PRIOR APPLICATION NUMBER:  1343/97
;  PRIOR FILING DATE:  1997-11-24
;  PRIOR APPLICATION NUMBER:  1344/97
;  PRIOR FILING DATE:  1997-11-24
;  PRIOR APPLICATION NUMBER:  60/067,249
;  PRIOR FILING DATE:  1997-12-02
;  PRIOR APPLICATION NUMBER:  60/067,240
;  PRIOR FILING DATE:  1997-12-02
;  PRIOR APPLICATION NUMBER:  09/073,684
;  PRIOR FILING DATE:  1998-05-06
;  PRIOR APPLICATION NUMBER:  09/184,217
;  PRIOR FILING DATE:  1998-11-02
;  NUMBER OF SEQ ID NOS:  32
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 359
;   TYPE: PRT
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;   ORGANISM: B. agaradherens
US-09-198-955A-2

  Query Match             57.0%;  Score 49;  DB 3;  Length 359;
  Best Local Similarity   64.3%;  Pred. No. 1.7;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        205 FENHWKTMLVGHTD 218


RESULT 10
US-09-395-858A-2
; Sequence 2, Application US/09395858A
; Patent No. 6242014
; GENERAL INFORMATION:
;  APPLICANT:  Feng Xu
;  TITLE OF INVENTION:  Methods For Using Pectate Lyases In
;  TITLE OF INVENTION:  Baking
;  FILE REFERENCE:  5670.200-US
;  CURRENT APPLICATION NUMBER: US/09/395,858A
;  CURRENT FILING DATE:  1999-09-14
;  PRIOR APPLICATION NUMBER:  09/156,298
;  PRIOR FILING DATE:  1998-09-17
;  NUMBER OF SEQ ID NOS:  12
;  SOFTWARE:  FastSEQ for Windows Version 3.0
; SEQ ID NO 2
;   LENGTH: 359
;   TYPE: PRT
;   ORGANISM: Bacillus agaradherens
US-09-395-858A-2

  Query Match             57.0%;  Score 49;  DB 3;  Length 359;
  Best Local Similarity   64.3%;  Pred. No. 1.7;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        205 FENHWKTMLVGHTD 218


RESULT 11
US-09-694-531-2
; Sequence 2, Application US/09694531
; Patent No. 6368843
; GENERAL INFORMATION:
;  APPLICANT: Andersen, Lene N.
;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Lange, Niels E.
;  APPLICANT:  Bjornvad, Mads E.
;  APPLICANT:  Moller, Soren
;  APPLICANT:  Glad, Sanne O. S.
;  APPLICANT:  Kauppinen, Markus S.
;  APPLICANT:  Schnorr, Kirk
;  APPLICANT:  Kongsbak, Lars
;  TITLE OF INVENTION: No. 6368843el Pectate Lyases
;  FILE REFERENCE: 5378.200-US
;  CURRENT APPLICATION NUMBER: US/09/694,531
;  CURRENT FILING DATE:  2000-10-23
;  PRIOR APPLICATION NUMBER: 09/198,955
;  PRIOR FILING DATE: 1998-11-24
;  PRIOR APPLICATION NUMBER: 1343/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 1344/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 60/067,249
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 60/067,240
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 09/073,684
;  PRIOR FILING DATE: 1998-05-06
;  PRIOR APPLICATION NUMBER: 09/184,217
;  PRIOR FILING DATE: 1998-11-02
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 359
;   TYPE: PRT
;   ORGANISM: B. agaradherens
US-09-694-531-2

  Query Match             57.0%;  Score 49;  DB 4;  Length 359;
  Best Local Similarity   64.3%;  Pred. No. 1.7;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        205 FENHWKTMLVGHTD 218


RESULT 12
US-10-072-152-2
; Sequence 2, Application US/10072152
; Patent No. 6677147
; GENERAL INFORMATION:
;  APPLICANT: Andersen, Lene N.
;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Lange, Niels E.
;  APPLICANT:  Bjornvad, Mads E.
;  APPLICANT:  Moller, Soren
;  APPLICANT:  Glad, Sanne O. S.
;  APPLICANT:  Kauppinen, Markus S.
;  APPLICANT:  Schnorr, Kirk
;  APPLICANT:  Kongsbak, Lars
;  TITLE OF INVENTION: No. 6677147el Pectate Lyases
;  FILE REFERENCE: 5378.200-US
;  CURRENT APPLICATION NUMBER: US/10/072,152
;  CURRENT FILING DATE:  2002-02-07
;  PRIOR APPLICATION NUMBER: US/09/198,955
;  PRIOR FILING DATE: 1998-11-24
;  PRIOR APPLICATION NUMBER: 1343/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 1344/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 60/067,249
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 60/067,240
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 09/073,684
;  PRIOR FILING DATE: 1998-05-06
;  PRIOR APPLICATION NUMBER: 09/184,217
;  PRIOR FILING DATE: 1998-11-02
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 359
;   TYPE: PRT
;   ORGANISM: B. agaradherens
US-10-072-152-2

  Query Match             57.0%;  Score 49;  DB 4;  Length 359;
  Best Local Similarity   64.3%;  Pred. No. 1.7;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        205 FENHWKTMLVGHTD 218


RESULT 13
US-09-198-955A-6
; Sequence 6, Application US/09198955A
; Patent No. 6187580
; GENERAL INFORMATION:
;  APPLICANT:  Andersen, Lene N.
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;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Lange, Niels E.
;  APPLICANT:  Bjornvad, Mads E.
;  APPLICANT:  Moller, Soren
;  APPLICANT:  Glad, Sanne O. S.
;  APPLICANT:  Kauppinen, Markus S.
;  APPLICANT:  Schnorr, Kirk
;  APPLICANT:  Kongsbak, Lars
;  TITLE OF INVENTION:  No. 6187580el Pectate Lyases
;  FILE REFERENCE:  5378.200-US
;  CURRENT APPLICATION NUMBER: US/09/198,955A
;  CURRENT FILING DATE:  1998-11-24
;  PRIOR APPLICATION NUMBER:  1343/97
;  PRIOR FILING DATE:  1997-11-24
;  PRIOR APPLICATION NUMBER:  1344/97
;  PRIOR FILING DATE:  1997-11-24
;  PRIOR APPLICATION NUMBER:  60/067,249
;  PRIOR FILING DATE:  1997-12-02
;  PRIOR APPLICATION NUMBER:  60/067,240
;  PRIOR FILING DATE:  1997-12-02
;  PRIOR APPLICATION NUMBER:  09/073,684
;  PRIOR FILING DATE:  1998-05-06
;  PRIOR APPLICATION NUMBER:  09/184,217
;  PRIOR FILING DATE:  1998-11-02
;  NUMBER OF SEQ ID NOS:  32
;  SOFTWARE:  FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 509
;   TYPE: PRT
;   ORGANISM: Bacillus sp.
US-09-198-955A-6

  Query Match             57.0%;  Score 49;  DB 3;  Length 509;
  Best Local Similarity   64.3%;  Pred. No. 2.4;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        355 FENHWKTMLVGHTD 368


RESULT 14
US-09-694-531-6
; Sequence 6, Application US/09694531
; Patent No. 6368843
; GENERAL INFORMATION:
;  APPLICANT: Andersen, Lene N.
;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Lange, Niels E.
;  APPLICANT:  Bjornvad, Mads E.
;  APPLICANT:  Moller, Soren
;  APPLICANT:  Glad, Sanne O. S.
;  APPLICANT:  Kauppinen, Markus S.
;  APPLICANT:  Schnorr, Kirk
;  APPLICANT:  Kongsbak, Lars
;  TITLE OF INVENTION: No. 6368843el Pectate Lyases
;  FILE REFERENCE: 5378.200-US
;  CURRENT APPLICATION NUMBER: US/09/694,531
;  CURRENT FILING DATE:  2000-10-23
;  PRIOR APPLICATION NUMBER: 09/198,955
;  PRIOR FILING DATE: 1998-11-24
;  PRIOR APPLICATION NUMBER: 1343/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 1344/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 60/067,249
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 60/067,240
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 09/073,684
;  PRIOR FILING DATE: 1998-05-06
;  PRIOR APPLICATION NUMBER: 09/184,217
;  PRIOR FILING DATE: 1998-11-02
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 509
;   TYPE: PRT
;   ORGANISM: Bacillus sp.
US-09-694-531-6

  Query Match             57.0%;  Score 49;  DB 4;  Length 509;
  Best Local Similarity   64.3%;  Pred. No. 2.4;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        355 FENHWKTMLVGHTD 368


RESULT 15
US-10-072-152-6
; Sequence 6, Application US/10072152
; Patent No. 6677147
; GENERAL INFORMATION:
;  APPLICANT: Andersen, Lene N.
;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Lange, Niels E.
;  APPLICANT:  Bjornvad, Mads E.
;  APPLICANT:  Moller, Soren
;  APPLICANT:  Glad, Sanne O. S.
;  APPLICANT:  Kauppinen, Markus S.
;  APPLICANT:  Schnorr, Kirk
;  APPLICANT:  Kongsbak, Lars
;  TITLE OF INVENTION: No. 6677147el Pectate Lyases
;  FILE REFERENCE: 5378.200-US
;  CURRENT APPLICATION NUMBER: US/10/072,152
;  CURRENT FILING DATE:  2002-02-07
;  PRIOR APPLICATION NUMBER: US/09/198,955
;  PRIOR FILING DATE: 1998-11-24
;  PRIOR APPLICATION NUMBER: 1343/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 1344/97
;  PRIOR FILING DATE: 1997-11-24
;  PRIOR APPLICATION NUMBER: 60/067,249
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 60/067,240
;  PRIOR FILING DATE: 1997-12-02
;  PRIOR APPLICATION NUMBER: 09/073,684
;  PRIOR FILING DATE: 1998-05-06
;  PRIOR APPLICATION NUMBER: 09/184,217
;  PRIOR FILING DATE: 1998-11-02
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;   LENGTH: 509
;   TYPE: PRT
;   ORGANISM: Bacillus sp.
US-10-072-152-6

  Query Match             57.0%;  Score 49;  DB 4;  Length 509;
  Best Local Similarity   64.3%;  Pred. No. 2.4;
  Matches    9;  Conservative    1;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              | || | ||:|| |
Db        355 FENHWKTMLVGHTD 368


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GenCore version 5.1.6

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Title: US-09-308-027A-8
Perfect score: 78
Sequence: 1 KSMKVTVAFNQFGPN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	78	100.0	15	14	US-10-354-240-9	Sequence 9, Appli
2	78	100.0	15	14	US-10-354-240-57	Sequence 57, Appl
3	78	100.0	15	14	US-10-354-240-158	Sequence 158, App
4	78	100.0	346	10	US-09-847-208-67	Sequence 67, Appl
5	78	100.0	367	10	US-09-847-208-109	Sequence 109, App
6	78	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
7	78	100.0	375	10	US-09-847-208-58	Sequence 58, Appl
8	70	89.7	32	14	US-10-354-240-10	Sequence 10, Appl
9	69	88.5	80	14	US-10-354-240-1	Sequence 1, Appli
10	69	88.5	105	14	US-10-354-240-2	Sequence 2, Appli
11	69	88.5	134	14	US-10-354-240-3	Sequence 3, Appli
12	55	70.5	15	14	US-10-354-240-58	Sequence 58, Appl
13	52	66.7	227	12	US-10-425-114-61944	Sequence 61944, A
14	52	66.7	378	12	US-10-424-599-149825	Sequence 149825,
15	51	65.4	404	12	US-10-424-599-190695	Sequence 190695,
16	51	65.4	409	12	US-10-424-599-279664	Sequence 279664,
17	49	62.8	443	12	US-10-424-599-162863	Sequence 162863,
18	48	61.5	15	14	US-10-354-240-56	Sequence 56, Appl
19	48	61.5	128	12	US-10-424-599-224393	Sequence 224393,
20	48	61.5	247	12	US-10-424-599-243902	Sequence 243902,
21	47	60.3	435	12	US-10-424-599-239482	Sequence 239482,
22	46	59.0	255	12	US-10-425-114-44652	Sequence 44652, A
23	46	59.0	271	12	US-10-424-599-171297	Sequence 171297,
24	46	59.0	450	12	US-10-424-599-234547	Sequence 234547,
25	43	55.1	263	12	US-10-424-599-191786	Sequence 191786,
26	42	53.8	397	10	US-09-847-208-15	Sequence 15, Appl
27	42	53.8	470	15	US-10-369-493-4015	Sequence 4015, Ap
28	41	52.6	298	12	US-10-282-122A-72142	Sequence 72142, A
29	41	52.6	584	12	US-10-282-122A-47689	Sequence 47689, A
30	41	52.6	2823	15	US-10-369-493-5220	Sequence 5220, Ap
31	41	52.6	2823	15	US-10-369-493-5221	Sequence 5221, Ap
32	40	51.3	191	9	US-09-828-644-87	Sequence 87, Appl
33	40	51.3	264	10	US-09-769-787-135	Sequence 135, App
34	40	51.3	313	12	US-10-424-599-239010	Sequence 239010,
35	40	51.3	333	9	US-09-754-105-2	Sequence 2, Appli
36	40	51.3	333	9	US-09-978-339-2	Sequence 2, Appli
37	40	51.3	333	13	US-10-021-121-10	Sequence 10, Appl
38	40	51.3	333	13	US-10-138-787-4	Sequence 4, Appli
39	40	51.3	333	15	US-10-331-496A-63	Sequence 63, Appl
40	40	51.3	677	12	US-10-335-977-8104	Sequence 8104, Ap
41	40	51.3	677	12	US-10-335-977-8105	Sequence 8105, Ap
42	40	51.3	680	12	US-10-335-977-8106	Sequence 8106, Ap
43	39	50.0	103	12	US-10-424-599-146695	Sequence 146695,
44	39	50.0	266	12	US-10-425-114-47903	Sequence 47903, A
45	39	50.0	266	12	US-10-425-114-50122	Sequence 50122, A

ALIGNMENTS

RESULT 1
US-10-354-240-9
; Sequence 9, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-9

Query Match 100.0%; Score 78; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db          1 KSMKVTVAFNQFGPN 15
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RESULT 2
US-10-354-240-57
; Sequence 57, Application US/10354240

; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43
US-10-354-240-57

Query Match 100.0%; Score 78; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
||||||||||||||||
Db 1 KSMKVTVAFNQFGPN 15

RESULT 3
US-10-354-240-158
; Sequence 158, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 158
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Figure 7, Row a
US-10-354-240-158

Query Match 100.0%; Score 78; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
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Db 1 KSMKVTVAFNQFGPN 15

RESULT 4
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match 100.0%; Score 78; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 4.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
||||||||||||||||
Db 211 KSMKVTVAFNQFGPN 225

RESULT 5
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match 100.0%; Score 78; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 4.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
||||||||||||||||
Db 232 KSMKVTVAFNQFGPN 246

RESULT 6
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A

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;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 78;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 4.6e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db        232 KSMKVTVAFNQFGPN 246


RESULT 7
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match             100.0%;  Score 78;  DB 10;  Length 375;
  Best Local Similarity   100.0%;  Pred. No. 4.6e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              |||||||||||||||
Db        232 KSMKVTVAFNQFGPN 246


RESULT 8
US-10-354-240-10
; Sequence 10, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
;   LENGTH: 32
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-10

  Query Match             89.7%;  Score 70;  DB 14;  Length 32;
  Best Local Similarity   86.7%;  Pred. No. 8.6e-06;
  Matches   13;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFGPN 15
              : |||||||||||||
Db         18 RRMKVTVAFNQFGPN 32


RESULT 9
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match             88.5%;  Score 69;  DB 14;  Length 80;
  Best Local Similarity   100.0%;  Pred. No. 3.7e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 MKVTVAFNQFGPN 15
              |||||||||||||
Db          1 MKVTVAFNQFGPN 13


RESULT 10
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-2

  Query Match             88.5%;  Score 69;  DB 14;  Length 105;
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Best Local Similarity 100.0%; Pred. No. 5.1e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          3 MKVTVAFNQFGPN 15
              |||||||||||||
Db          1 MKVTVAFNQFGPN 13
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RESULT 11
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-3

Query Match 88.5%; Score 69; DB 14; Length 134;
Best Local Similarity 100.0%; Pred. No. 6.7e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          3 MKVTVAFNQFGPN 15
              |||||||||||||
Db          1 MKVTVAFNQFGPN 13
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RESULT 12
US-10-354-240-58
; Sequence 58, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 58
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 44
US-10-354-240-58

Query Match 70.5%; Score 55; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          6 TVAFNQFGPN 15
              ||||||||||
Db          1 TVAFNQFGPN 10
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RESULT 13
US-10-425-114-61944
; Sequence 61944, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61944
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73247D08_FLI.pep
US-10-425-114-61944

Query Match 66.7%; Score 52; DB 12; Length 227;
Best Local Similarity 69.2%; Pred. No. 0.18;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 KSMKVTVAFNQFG 13
              |:|:|||:||| ||
Db         87 KAMQVTIAFNHFG 99
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RESULT 14
US-10-424-599-149825
; Sequence 149825, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 149825
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(378)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_106313C.1.pep
US-10-424-599-149825

Query Match 66.7%; Score 52; DB 12; Length 378;
Best Local Similarity 69.2%; Pred. No. 0.32;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 KSMKVTVAFNQFG 13
              |:|:||:||| ||
Db        238 KNMQVTIAFNHFG 250


RESULT 15
US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
;   LENGTH: 404
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep
US-10-424-599-190695

  Query Match             65.4%;  Score 51;  DB 12;  Length 404;
  Best Local Similarity   69.2%;  Pred. No. 0.52;
  Matches    9;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 KSMKVTVAFNQFG 13
              | |:||:||| ||
Db        264 KDMQVTIAFNHFG 276


Search completed: April 19, 2004, 11:29:28
Job time : 69.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-7
Perfect score: 86
Sequence: 1 LFFNHHKVMLLGHDD 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
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7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	86	100.0	15	14	US-10-354-240-53	Sequence 53, Appl
2	86	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
3	82	95.3	346	10	US-09-847-208-67	Sequence 67, Appl
4	82	95.3	367	10	US-09-847-208-109	Sequence 109, App
5	76	88.4	375	10	US-09-847-208-58	Sequence 58, Appl
6	56	65.1	15	14	US-10-354-240-52	Sequence 52, Appl
7	56	65.1	15	14	US-10-354-240-54	Sequence 54, Appl
8	56	65.1	247	12	US-10-424-599-243902	Sequence 243902,
9	53	61.6	209	12	US-10-425-114-69765	Sequence 69765, A
10	52.5	61.0	128	12	US-10-424-599-224393	Sequence 224393,
11	52.5	61.0	227	12	US-10-425-114-61944	Sequence 61944, A
12	52	60.5	378	12	US-10-424-599-149825	Sequence 149825,
13	50.5	58.7	404	12	US-10-424-599-190695	Sequence 190695,
14	50.5	58.7	409	12	US-10-424-599-279664	Sequence 279664,
15	50	58.1	212	12	US-10-424-599-230315	Sequence 230315,
16	49	57.0	359	12	US-10-655-433-2	Sequence 2, Appli
17	49	57.0	359	13	US-10-072-152-2	Sequence 2, Appli
18	49	57.0	509	12	US-10-655-433-6	Sequence 6, Appli
19	49	57.0	509	13	US-10-072-152-6	Sequence 6, Appli
20	48	55.8	450	12	US-10-424-599-234547	Sequence 234547,
21	45	52.3	435	12	US-10-225-066A-1066	Sequence 1066, Ap
22	45	52.3	435	15	US-10-374-780A-2730	Sequence 2730, Ap
23	45	52.3	456	15	US-10-369-493-18548	Sequence 18548, A
24	44	51.2	568	12	US-10-425-114-63265	Sequence 63265, A
25	44	51.2	571	12	US-10-425-114-60176	Sequence 60176, A
26	44	51.2	578	12	US-10-425-114-55113	Sequence 55113, A
27	44	51.2	626	12	US-10-425-114-63250	Sequence 63250, A
28	43	50.0	361	12	US-10-335-977-7524	Sequence 7524, Ap
29	43	50.0	681	12	US-10-335-977-7525	Sequence 7525, Ap
30	43	50.0	682	9	US-09-815-242-11452	Sequence 11452, A
31	43	50.0	682	12	US-10-282-122A-59009	Sequence 59009, A
32	42	48.8	42	12	US-10-424-599-214200	Sequence 214200,
33	42	48.8	169	12	US-10-424-599-170451	Sequence 170451,
34	42	48.8	184	12	US-10-425-114-40338	Sequence 40338, A
35	42	48.8	448	15	US-10-369-493-11678	Sequence 11678, A
36	42	48.8	448	15	US-10-369-493-14693	Sequence 14693, A
37	42	48.8	463	15	US-10-369-493-15175	Sequence 15175, A
38	41	47.7	313	12	US-10-424-599-239010	Sequence 239010,
39	41	47.7	455	15	US-10-369-493-20630	Sequence 20630, A
40	40.5	47.1	1465	12	US-10-282-122A-74767	Sequence 74767, A
41	40	46.5	44	12	US-10-424-599-281567	Sequence 281567,
42	40	46.5	52	12	US-10-424-599-223934	Sequence 223934,
43	40	46.5	165	12	US-10-424-599-170452	Sequence 170452,
44	40	46.5	176	12	US-10-425-114-49027	Sequence 49027, A
45	40	46.5	179	14	US-10-205-219-42	Sequence 42, Appl

ALIGNMENTS

RESULT 1
US-10-354-240-53
; Sequence 53, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 39
US-10-354-240-53

Query Match 100.0%; Score 86; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHDD 15
||||||||||||||||
Db 1 LFFNHHKVMLLGHDD 15

```
RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 86;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 9e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 LFFNHHKVMLLGHDD 15
              |||||||||||||||
Db        212 LFFNHHKVMLLGHDD 226


RESULT 3
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Cupressus arizonica
US-09-847-208-67

  Query Match             95.3%;  Score 82;  DB 10;  Length 346;
  Best Local Similarity   100.0%;  Pred. No. 3.7e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              ||||||||||||||
Db        192 FFNHHKVMLLGHDD 205


RESULT 4
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

  Query Match             95.3%;  Score 82;  DB 10;  Length 367;
  Best Local Similarity   100.0%;  Pred. No. 3.9e-05;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              ||||||||||||||
Db        213 FFNHHKVMLLGHDD 226


RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match             88.4%;  Score 76;  DB 10;  Length 375;
  Best Local Similarity   92.9%;  Pred. No. 0.00037;
  Matches   13;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 FFNHHKVMLLGHDD 15
              |||||||||||| |
Db        213 FFNHHKVMLLGHSD 226


RESULT 6
US-10-354-240-52
; Sequence 52, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
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; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 38
US-10-354-240-52

Query Match 65.1%; Score 56; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LFFNHHKVML 10
||||||||||
Db 6 LFFNHHKVML 15

RESULT 7
US-10-354-240-54
; Sequence 54, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40
US-10-354-240-54

Query Match 65.1%; Score 56; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.022;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 HKVMLLGHDD 15
||||||||||
Db 1 HKVMLLGHDD 10

RESULT 8
US-10-424-599-243902
; Sequence 243902, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 243902
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_62271C.1.pep
US-10-424-599-243902

Query Match 65.1%; Score 56; DB 12; Length 247;
Best Local Similarity 71.4%; Pred. No. 0.4;
Matches 10; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 FFNHHKVMLLGHDD 15
| :| :||||||||
Db 8 FAHHDEVMLLGHDD 21

RESULT 9
US-10-425-114-69765
; Sequence 69765, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69765
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700574433_FLI.pep
US-10-425-114-69765

Query Match 61.6%; Score 53; DB 12; Length 209;
Best Local Similarity 57.1%; Pred. No. 1;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LFFNHHKVMLLGHD 14
|| | |:: :||||
Db 85 LFLNPHRIQILGHD 98

RESULT 10
US-10-424-599-224393
; Sequence 224393, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 224393
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_44655C.1.pep
US-10-424-599-224393

Query Match 61.0%; Score 52.5; DB 12; Length 128;
Best Local Similarity 66.7%; Pred. No. 0.74;
Matches 10; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

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Qy          2 FFNHH-KVMLLGHDD 15
              :| || :|||||| |
Db         93 YFTHHNEVMLLGHSD 107
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RESULT 11
US-10-425-114-61944
; Sequence 61944, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61944
; LENGTH: 227
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73247D08_FLI.pep
US-10-425-114-61944

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  Query Match             61.0%;  Score 52.5;  DB 12;  Length 227;
  Best Local Similarity   66.7%;  Pred. No. 1.3;
  Matches   10;  Conservative    2;  Mismatches    2;  Indels    1;  Gaps    1;

Qy          2 FFNHH-KVMLLGHDD 15
              :| || :|||||| |
Db         67 YFTHHNEVMLLGHSD 81
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RESULT 12
US-10-424-599-149825
; Sequence 149825, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 149825
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(378)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_106313C.1.pep
US-10-424-599-149825

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  Query Match             60.5%;  Score 52;  DB 12;  Length 378;
  Best Local Similarity   75.0%;  Pred. No. 2.8;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          4 NHHKVMLLGHDD 15
              :|:|||||| |
Db        221 HHNKVMLLGHSD 232
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RESULT 13
US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep
US-10-424-599-190695

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  Query Match             58.7%;  Score 50.5;  DB 12;  Length 404;
  Best Local Similarity   66.7%;  Pred. No. 5.1;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    1;  Gaps    1;

Qy          2 FFNHH-KVMLLGHDD 15
              :  || ||||||| |
Db        244 YMTHHDKVMLLGHSD 258
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RESULT 14
US-10-424-599-279664
; Sequence 279664, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 279664
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(409)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_94559C.1.pep
US-10-424-599-279664

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  Query Match             58.7%;  Score 50.5;  DB 12;  Length 409;
  Best Local Similarity   66.7%;  Pred. No. 5.2;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    1;  Gaps    1;

Qy          2 FFNHH-KVMLLGHDD 15
              :  || ||||||| |
Db        249 YMTHHDKVMLLGHSD 263
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RESULT 15
US-10-424-599-230315
; Sequence 230315, Application US/10424599

; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 230315
; LENGTH: 212
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(212)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_49999C.1.pep
US-10-424-599-230315

Query Match 58.1%; Score 50; DB 12; Length 212;
Best Local Similarity 57.1%; Pred. No. 3.2;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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Qy          2 FFNHHKVMLLGHDD 15
              | :|||  |:|| |
Db        183 FHDHHKXSLVGHSD 196
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Search completed: April 19, 2004, 11:29:27
Job time : 68.3163 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-6
Perfect score: 81
Sequence: 1 DALTLRTATNIWIDH 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	81	100.0	20	3	US-08-467-023-41	Sequence 41, Appl
2	81	100.0	30	3	US-08-467-023-68	Sequence 68, Appl
3	81	100.0	30	3	US-08-467-023-75	Sequence 75, Appl
4	81	100.0	50	3	US-08-467-023-63	Sequence 63, Appl
5	81	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
6	61	75.3	367	3	US-08-467-023-95	Sequence 95, Appl
7	59	72.8	370	3	US-08-467-023-97	Sequence 97, Appl
8	58	71.6	16	3	US-08-467-023-212	Sequence 212, App
9	58	71.6	18	3	US-08-467-023-210	Sequence 210, App
10	58	71.6	18	3	US-08-467-023-211	Sequence 211, App
11	58	71.6	20	3	US-08-467-023-203	Sequence 203, App
12	58	71.6	21	3	US-08-467-023-119	Sequence 119, App
13	58	71.6	21	3	US-08-467-023-208	Sequence 208, App
14	58	71.6	21	3	US-08-467-023-209	Sequence 209, App
15	58	71.6	22	3	US-08-467-023-76	Sequence 76, Appl
16	58	71.6	23	3	US-08-467-023-204	Sequence 204, App
17	58	71.6	23	3	US-08-467-023-206	Sequence 206, App
18	58	71.6	23	3	US-08-467-023-207	Sequence 207, App
19	58	71.6	24	3	US-08-467-023-77	Sequence 77, Appl
20	58	71.6	24	3	US-08-467-023-120	Sequence 120, App
21	58	71.6	25	3	US-08-467-023-205	Sequence 205, App
22	58	71.6	26	3	US-08-467-023-202	Sequence 202, App
23	53	65.4	41	2	US-08-773-008-5	Sequence 5, Appli
24	51	63.0	379	2	US-08-887-365-36	Sequence 36, Appl
25	50	61.7	373	1	US-07-723-002C-2	Sequence 2, Appli
26	50	61.7	399	4	US-09-910-505B-17	Sequence 17, Appl
27	48	59.3	20	3	US-08-467-023-40	Sequence 40, Appl
28	47	58.0	387	1	US-08-290-448A-72	Sequence 72, Appl
29	47	58.0	387	1	US-08-290-448A-72	Sequence 72, Appl
30	47	58.0	387	1	US-08-175-069A-72	Sequence 72, Appl
31	47	58.0	387	4	US-08-461-939B-72	Sequence 72, Appl
32	47	58.0	387	4	US-08-464-000-72	Sequence 72, Appl
33	46	56.8	379	1	US-07-723-002C-4	Sequence 4, Appli
34	45	55.6	391	1	US-08-290-448A-59	Sequence 59, Appl
35	45	55.6	391	1	US-08-290-448A-59	Sequence 59, Appl
36	45	55.6	391	1	US-08-175-069A-59	Sequence 59, Appl
37	45	55.6	391	4	US-08-461-939B-59	Sequence 59, Appl
38	45	55.6	391	4	US-08-464-000-59	Sequence 59, Appl
39	45	55.6	398	1	US-08-290-448A-74	Sequence 74, Appl
40	45	55.6	398	1	US-08-290-448A-74	Sequence 74, Appl
41	45	55.6	398	1	US-08-175-069A-74	Sequence 74, Appl
42	45	55.6	398	4	US-08-461-939B-74	Sequence 74, Appl
43	45	55.6	398	4	US-08-464-000-74	Sequence 74, Appl
44	44	54.3	379	1	US-07-723-002C-6	Sequence 6, Appli
45	44	54.3	388	1	US-08-290-448A-80	Sequence 80, Appl

ALIGNMENTS

```
RESULT 1
US-08-467-023-41
; Sequence 41, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  41:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-41

Query Match 100.0%; Score 81; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.9e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
||||||||||||||||
Db 1 DALTLRTATNIWIDH 15

RESULT 2
US-08-467-023-68
; Sequence 68, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-68

Query Match 100.0%; Score 81; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
||||||||||||||||
Db 1 DALTLRTATNIWIDH 15

RESULT 3

US-08-467-023-75
; Sequence 75, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-75

Query Match 100.0%; Score 81; DB 3; Length 30;
Best Local Similarity 100.0%; Pred. No. 8e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
||||||||||||||||
Db 1 DALTLRTATNIWIDH 15

RESULT 4
US-08-467-023-63
; Sequence 63, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;

```
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  63:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  50 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-63

  Query Match             100.0%;  Score 81;  DB 3;  Length 50;
  Best Local Similarity   100.0%;  Pred. No. 1.5e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              |||||||||||||||
Db         21 DALTLRTATNIWIDH 35


RESULT 5
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 81;  DB 3;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 1.6e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              |||||||||||||||
Db        172 DALTLRTATNIWIDH 186


RESULT 6
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
```

```
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             75.3%;  Score 61;  DB 3;  Length 367;
  Best Local Similarity   66.7%;  Pred. No. 0.0059;
  Matches   10;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||:|:|  || ||||
Db        172 DAITMRHVTNAWIDH 186


RESULT 7
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             72.8%;  Score 59;  DB 3;  Length 370;
  Best Local Similarity   60.0%;  Pred. No. 0.014;
  Matches    9;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              || |:|| : :||:||
Db        172 DAFTVRTSEHIWVDH 186


RESULT 8
US-08-467-023-212
; Sequence 212, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  212:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  16 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-212

  Query Match             71.6%;  Score 58;  DB 3;  Length 16;
  Best Local Similarity   100.0%;  Pred. No. 0.00048;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          2 RTATNIWIDH 11


RESULT 9
US-08-467-023-210
; Sequence 210, Application US/08467023
```

```
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  210:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-210

  Query Match             71.6%;  Score 58;  DB 3;  Length 18;
  Best Local Similarity   100.0%;  Pred. No. 0.00055;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          4 RTATNIWIDH 13


RESULT 10
US-08-467-023-211
; Sequence 211, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  211:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  18 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-211

  Query Match             71.6%;  Score 58;  DB 3;  Length 18;
  Best Local Similarity   100.0%;  Pred. No. 0.00055;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          4 RTATNIWIDH 13


RESULT 11
US-08-467-023-203
; Sequence 203, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
```

```
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  203:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-203

  Query Match             71.6%;  Score 58;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.00062;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          2 RTATNIWIDH 11


RESULT 12
US-08-467-023-119
; Sequence 119, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  119:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-467-023-119

  Query Match             71.6%;  Score 58;  DB 3;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.00066;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          3 RTATNIWIDH 12


RESULT 13
US-08-467-023-208
; Sequence 208, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  208:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-208
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  Query Match             71.6%;  Score 58;  DB 3;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.00066;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          4 RTATNIWIDH 13


RESULT 14
US-08-467-023-209
; Sequence 209, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  209:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  21 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-209

  Query Match             71.6%;  Score 58;  DB 3;  Length 21;
  Best Local Similarity   100.0%;  Pred. No. 0.00066;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          4 RTATNIWIDH 13


RESULT 15
US-08-467-023-76
; Sequence 76, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  76:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  22 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-76

  Query Match             71.6%;  Score 58;  DB 3;  Length 22;
  Best Local Similarity   100.0%;  Pred. No. 0.0007;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          1 RTATNIWIDH 10


Search completed: April 19, 2004, 12:38:16
Job time : 14.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-6
Perfect score: 81
Sequence: 1 DALTLRTATNIWIDH 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
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16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	81	100.0	15	14	US-10-354-240-45	Sequence 45, Appl
2	81	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
3	63	77.8	346	10	US-09-847-208-67	Sequence 67, Appl
4	63	77.8	367	10	US-09-847-208-109	Sequence 109, App
5	62	76.5	375	10	US-09-847-208-58	Sequence 58, Appl
6	58	71.6	15	14	US-10-354-240-46	Sequence 46, Appl
7	55	67.9	212	12	US-10-424-599-230315	Sequence 230315,
8	55	67.9	443	12	US-10-424-599-162863	Sequence 162863,
9	50	61.7	399	14	US-10-403-192-17	Sequence 17, Appl
10	50	61.7	420	14	US-10-326-185-87	Sequence 87, Appl
11	48	59.3	15	14	US-10-354-240-44	Sequence 44, Appl
12	47	58.0	263	12	US-10-424-599-191786	Sequence 191786,
13	47	58.0	396	10	US-09-847-208-13	Sequence 13, Appl
14	46	56.8	255	12	US-10-425-114-44652	Sequence 44652, A
15	46	56.8	271	12	US-10-424-599-171297	Sequence 171297,
16	45	55.6	398	10	US-09-847-208-14	Sequence 14, Appl
17	45	55.6	435	12	US-10-424-599-239482	Sequence 239482,
18	45	55.6	450	12	US-10-424-599-234547	Sequence 234547,
19	44	54.3	397	10	US-09-847-208-17	Sequence 17, Appl
20	44	54.3	443	14	US-10-156-761-13902	Sequence 13902, A
21	43	53.1	19	9	US-09-864-761-41072	Sequence 41072, A
22	43	53.1	392	10	US-09-847-208-16	Sequence 16, Appl
23	42	51.9	128	12	US-10-424-599-224393	Sequence 224393,
24	41.5	51.2	335	9	US-09-789-266-1	Sequence 1, Appli
25	41.5	51.2	335	12	US-10-655-433-10	Sequence 10, Appl
26	41.5	51.2	335	13	US-10-072-152-10	Sequence 10, Appl
27	41.5	51.2	416	14	US-10-156-761-12568	Sequence 12568, A
28	41	50.6	282	12	US-10-107-431-115	Sequence 115, App
29	41	50.6	352	14	US-10-403-192-18	Sequence 18, Appl
30	41	50.6	397	10	US-09-847-208-15	Sequence 15, Appl
31	41	50.6	1395	9	US-09-808-602-67	Sequence 67, Appl
32	41	50.6	1395	10	US-09-800-198-56	Sequence 56, Appl
33	41	50.6	1395	14	US-10-289-776-15	Sequence 15, Appl
34	40	49.4	130	12	US-10-424-599-144549	Sequence 144549,
35	40	49.4	312	10	US-09-915-043-46	Sequence 46, Appl
36	40	49.4	312	10	US-09-779-679-35	Sequence 35, Appl
37	40	49.4	312	10	US-09-907-218-53	Sequence 53, Appl
38	40	49.4	312	10	US-09-907-218-54	Sequence 54, Appl
39	40	49.4	313	12	US-10-424-599-239010	Sequence 239010,
40	40	49.4	340	10	US-09-834-231-1	Sequence 1, Appli
41	40	49.4	367	10	US-09-834-231-5	Sequence 5, Appli
42	40	49.4	369	10	US-09-834-231-7	Sequence 7, Appli
43	40	49.4	369	10	US-09-834-231-9	Sequence 9, Appli
44	40	49.4	383	10	US-09-834-231-3	Sequence 3, Appli
45	40	49.4	398	15	US-10-369-493-100	Sequence 100, App

ALIGNMENTS

RESULT 1
US-10-354-240-45
; Sequence 45, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 31
US-10-354-240-45

Query Match 100.0%; Score 81; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DALTLRTATNIWIDH 15
||||||||||||||||
Db 1 DALTLRTATNIWIDH 15

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RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 81;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 1.5e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||||||||||||||||
Db        172 DALTLRTATNIWIDH 186


RESULT 3
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Cupressus arizonica
US-09-847-208-67

  Query Match             77.8%;  Score 63;  DB 10;  Length 346;
  Best Local Similarity   66.7%;  Pred. No. 0.016;
  Matches   10;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||:|:|  || ||||
Db        151 DAITMRNVTNAWIDH 165


RESULT 4
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

  Query Match             77.8%;  Score 63;  DB 10;  Length 367;
  Best Local Similarity   66.7%;  Pred. No. 0.017;
  Matches   10;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||:|:|  || ||||
Db        172 DAITMRNVTNAWIDH 186


RESULT 5
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match             76.5%;  Score 62;  DB 10;  Length 375;
  Best Local Similarity   60.0%;  Pred. No. 0.026;
  Matches    9;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||:|:|  |::||||
Db        172 DAITMRNVTDVWIDH 186


RESULT 6
US-10-354-240-46
; Sequence 46, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
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;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 32
US-10-354-240-46

  Query Match             71.6%;  Score 58;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0046;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RTATNIWIDH 15
              ||||||||||
Db          1 RTATNIWIDH 10


RESULT 7
US-10-424-599-230315
; Sequence 230315, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 230315
;   LENGTH: 212
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(212)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_49999C.1.pep
US-10-424-599-230315

  Query Match             67.9%;  Score 55;  DB 12;  Length 212;
  Best Local Similarity   46.7%;  Pred. No. 0.22;
  Matches    7;  Conservative    6;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||: :: :||:|:||
Db        135 DAIGIQKSTNVWVDH 149


RESULT 8
US-10-424-599-162863
; Sequence 162863, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 162863
;   LENGTH: 443
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_118083C.1.pep
US-10-424-599-162863

  Query Match             67.9%;  Score 55;  DB 12;  Length 443;
  Best Local Similarity   60.0%;  Pred. No. 0.47;
  Matches    9;  Conservative    4;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||:::  :|||||||
Db        243 DAISIFGSTNIWIDH 257


RESULT 9
US-10-403-192-17
; Sequence 17, Application US/10403192
; Publication No. US20030175940A1
; GENERAL INFORMATION:
;  APPLICANT: Schroder Glad, Sanne O.
;  APPLICANT:  Andersen, Carsten
;  APPLICANT:  Schulein, Martin
;  APPLICANT:  Frandsen, Torben P.
;  TITLE OF INVENTION: CELL-WALL DEGRADING ENZYME VARIANTS
;  FILE REFERENCE: 10044.200-US
;  CURRENT APPLICATION NUMBER: US/10/403,192
;  CURRENT FILING DATE:  2003-03-31
;  PRIOR APPLICATION NUMBER: US/09/910,505B
;  PRIOR FILING DATE: 2001-07-19
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.2
; SEQ ID NO 17
;   LENGTH: 399
;   TYPE: PRT
;   ORGANISM: Bacillus subtilis
US-10-403-192-17

  Query Match             61.7%;  Score 50;  DB 14;  Length 399;
  Best Local Similarity   53.3%;  Pred. No. 3;
  Matches    8;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              | :|:   |:|||||
Db        184 DNITINGGTHIWIDH 198


RESULT 10
US-10-326-185-87
; Sequence 87, Application US/10326185
; Publication No. US20030175902A1
; GENERAL INFORMATION:
;  APPLICANT: Sloma, Alan
;  APPLICANT:  Behr, Regine
;  APPLICANT:  Widner, William
;  APPLICANT:  Tang, Maria
;  APPLICANT:  Sternberg, David
;  APPLICANT:  Brown, Stephen
;  TITLE OF INVENTION: Methods for Producing Hyaluronan In a Recombinant Host Cell
;  FILE REFERENCE: 10241.200-US
;  CURRENT APPLICATION NUMBER: US/10/326,185
;  CURRENT FILING DATE:  2002-12-20
;  PRIOR APPLICATION NUMBER: US 60/342,644
;  PRIOR FILING DATE: 2001-12-21
;  NUMBER OF SEQ ID NOS: 108
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 87
;   LENGTH: 420
;   TYPE: PRT
;   ORGANISM: Bacillus subtilis
US-10-326-185-87

  Query Match             61.7%;  Score 50;  DB 14;  Length 420;
  Best Local Similarity   53.3%;  Pred. No. 3.2;
  Matches    8;  Conservative    3;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              | :|:   |:|||||
Db        205 DNITINGGTHIWIDH 219
```

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RESULT 11
US-10-354-240-44
; Sequence 44, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 30
US-10-354-240-44

  Query Match             59.3%;  Score 48;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.23;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATN 10
              ||||||||||
Db          6 DALTLRTATN 15


RESULT 12
US-10-424-599-191786
; Sequence 191786, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 191786
;   LENGTH: 263
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_15202C.1.pep
US-10-424-599-191786

  Query Match             58.0%;  Score 47;  DB 12;  Length 263;
  Best Local Similarity   46.7%;  Pred. No. 6.4;
  Matches    7;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              | :::  ::||||||
Db         62 DGISIFGSSNIWIDH 76


RESULT 13
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 396
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

  Query Match             58.0%;  Score 47;  DB 10;  Length 396;
  Best Local Similarity   46.7%;  Pred. No. 9.7;
  Matches    7;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              ||:::  :: |||||
Db        195 DAISISGSSQIWIDH 209


RESULT 14
US-10-425-114-44652
; Sequence 44652, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 44652
;   LENGTH: 255
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: 700903387_FLI.pep
US-10-425-114-44652

  Query Match             56.8%;  Score 46;  DB 12;  Length 255;
  Best Local Similarity   40.0%;  Pred. No. 9.2;
  Matches    6;  Conservative    6;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              | :::  ::|:||||
Db         53 DGISIFGSSNVWIDH 67


RESULT 15
US-10-424-599-171297
; Sequence 171297, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
```

```
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 171297
;   LENGTH: 271
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_125697C.1.pep
US-10-424-599-171297

  Query Match             56.8%;  Score 46;  DB 12;  Length 271;
  Best Local Similarity   40.0%;  Pred. No. 9.8;
  Matches    6;  Conservative    6;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DALTLRTATNIWIDH 15
              | :::  ::|:||||
Db         69 DGISIFGSSNVWIDH 83


Search completed: April 19, 2004, 11:29:27
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-5
Perfect score: 80
Sequence: 1 HPQDGDALTLRTATN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	80	100.0	20	3	US-08-467-023-40	Sequence 40, Appl
2	80	100.0	50	3	US-08-467-023-63	Sequence 63, Appl
3	80	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
4	59	73.8	370	3	US-08-467-023-97	Sequence 97, Appl
5	57	71.2	367	3	US-08-467-023-95	Sequence 95, Appl
6	48	60.0	20	3	US-08-467-023-41	Sequence 41, Appl
7	48	60.0	30	3	US-08-467-023-68	Sequence 68, Appl
8	48	60.0	30	3	US-08-467-023-75	Sequence 75, Appl
9	43	53.8	764	4	US-09-252-991A-21733	Sequence 21733, A
10	41	51.2	145	4	US-09-543-681A-6503	Sequence 6503, Ap
11	41	51.2	773	1	US-08-019-870-1	Sequence 1, Appli
12	41	51.2	773	1	US-08-019-870-6	Sequence 6, Appli
13	41	51.2	774	1	US-07-747-901A-3	Sequence 3, Appli
14	41	51.2	774	1	US-07-935-312-3	Sequence 3, Appli
15	41	51.2	774	1	US-08-019-870-3	Sequence 3, Appli
16	41	51.2	774	1	US-08-019-870-5	Sequence 5, Appli
17	41	51.2	774	1	US-08-019-870-8	Sequence 8, Appli
18	41	51.2	774	1	US-08-019-870-11	Sequence 11, Appl
19	41	51.2	774	1	US-08-314-309A-21	Sequence 21, Appl
20	41	51.2	774	1	US-08-633-760-44	Sequence 44, Appl
21	41	51.2	774	1	US-08-633-760-46	Sequence 46, Appl
22	41	51.2	774	1	US-08-633-760-48	Sequence 48, Appl
23	41	51.2	774	1	US-08-633-760-50	Sequence 50, Appl
24	41	51.2	774	1	US-08-633-760-52	Sequence 52, Appl
25	40.5	50.6	270	4	US-09-134-000C-4517	Sequence 4517, Ap
26	40	50.0	947	2	US-08-887-518-2	Sequence 2, Appli
27	40	50.0	947	2	US-09-023-321-2	Sequence 2, Appli
28	40	50.0	947	2	US-09-032-475-2	Sequence 2, Appli
29	40	50.0	947	3	US-09-257-703-1	Sequence 1, Appli
30	40	50.0	947	4	US-09-871-889A-1	Sequence 1, Appli
31	38	47.5	316	4	US-09-252-991A-32693	Sequence 32693, A
32	37	46.2	28	2	US-08-765-815-7	Sequence 7, Appli
33	37	46.2	28	3	US-08-859-738A-7	Sequence 7, Appli
34	37	46.2	120	4	US-09-252-991A-21839	Sequence 21839, A
35	37	46.2	246	4	US-09-252-991A-27611	Sequence 27611, A
36	37	46.2	311	4	US-09-252-991A-18916	Sequence 18916, A
37	37	46.2	425	4	US-09-252-991A-26326	Sequence 26326, A
38	37	46.2	452	4	US-09-463-712C-8	Sequence 8, Appli
39	37	46.2	452	4	US-09-865-415-6	Sequence 6, Appli
40	37	46.2	520	4	US-09-527-073-2	Sequence 2, Appli
41	37	46.2	650	4	US-09-252-991A-24093	Sequence 24093, A
42	37	46.2	796	4	US-09-389-956-2	Sequence 2, Appli
43	37	46.2	6396	4	US-09-410-551B-72	Sequence 72, Appl
44	36	45.0	84	3	US-09-404-671-6	Sequence 6, Appli
45	36	45.0	234	4	US-09-489-039A-13353	Sequence 13353, A

ALIGNMENTS

RESULT 1
US-08-467-023-40
; Sequence 40, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-40

Query Match 100.0%; Score 80; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.5e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HPQDGDALTLRTATN 15
||||||||||||||||
Db 6 HPQDGDALTLRTATN 20

RESULT 2
US-08-467-023-63
; Sequence 63, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-63

Query Match 100.0%; Score 80; DB 3; Length 50;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HPQDGDALTLRTATN 15
||||||||||||||||
Db 16 HPQDGDALTLRTATN 30

RESULT 3
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-2

Query Match 100.0%; Score 80; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 1.5e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HPQDGDALTLRTATN 15
||||||||||||||||
Db 167 HPQDGDALTLRTATN 181

RESULT 4
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

```
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             73.8%;  Score 59;  DB 3;  Length 370;
  Best Local Similarity   76.9%;  Pred. No. 0.01;
  Matches   10;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTA 13
              ||||||| |:||:
Db        167 HPQDGDAFTVRTS 179


RESULT 5
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             71.2%;  Score 57;  DB 3;  Length 367;
  Best Local Similarity   66.7%;  Pred. No. 0.023;
  Matches   10;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTATN 15
              | |||||:|:|  ||
Db        167 HAQDGDAITMRHVTN 181


RESULT 6
US-08-467-023-41
; Sequence 41, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
```

```
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  41:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-41

  Query Match             60.0%;  Score 48;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.029;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 DALTLRTATN 15
              ||||||||||
Db          1 DALTLRTATN 10


RESULT 7
US-08-467-023-68
; Sequence 68, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  68:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-68

  Query Match             60.0%;  Score 48;  DB 3;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.048;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 DALTLRTATN 15
              ||||||||||
Db          1 DALTLRTATN 10


RESULT 8
US-08-467-023-75
; Sequence 75, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  75:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  30 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-75

  Query Match             60.0%;  Score 48;  DB 3;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 0.048;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 DALTLRTATN 15
              ||||||||||
Db          1 DALTLRTATN 10


RESULT 9
US-09-252-991A-21733
; Sequence 21733, Application US/09252991A
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; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 21733
;   LENGTH: 764
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21733

  Query Match             53.8%;  Score 43;  DB 4;  Length 764;
  Best Local Similarity   80.0%;  Pred. No. 19;
  Matches    8;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTL 10
              || ||||| |
Db        183 HPGDGDALAL 192


RESULT 10
US-09-543-681A-6503
; Sequence 6503, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
;  APPLICANT: GARY BRETON
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABIL
;  TITLE OF INVENTION:  DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 2709.1002-001
;  CURRENT APPLICATION NUMBER: US/09/543,681A
;  CURRENT FILING DATE:  2000-04-05
;  PRIOR APPLICATION NUMBER: US 60/128,706
;  PRIOR FILING DATE: 1999-04-09
;  NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 6503
;   LENGTH: 145
;   TYPE: PRT
;   ORGANISM: Proteus mirabilis
US-09-543-681A-6503

  Query Match             51.2%;  Score 41;  DB 4;  Length 145;
  Best Local Similarity   53.3%;  Pred. No. 6;
  Matches    8;  Conservative    1;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTATN 15
              ||:| |  |||   |
Db         29 HPEDIDRYTLRQEAN 43


RESULT 11
US-08-019-870-1
; Sequence 1, Application US/08019870
; Patent No. 5336613
;  GENERAL INFORMATION:
;    APPLICANT:  NIWA, MINEO
;    APPLICANT:  YOSHIMASA, SAITO
;    APPLICANT:  SASAKI, HITOSHI
;    APPLICANT:  ISHII, YOSHINORI
;    TITLE OF INVENTION:  A NEW CEPHALOSPORIN C ACYLASE
;    NUMBER OF SEQUENCES:  42
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 S. Jefferson Davis Highway, Suite 400
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/019,870
;      FILING DATE:  19930219
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5336613man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  18-791-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 413-3000
;      TELEFAX:  (703) 413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  773 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-019-870-1

  Query Match             51.2%;  Score 41;  DB 1;  Length 773;
  Best Local Similarity   72.7%;  Pred. No. 46;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 PQDGDALTLRT 12
              |:|| |||||:
Db        369 PRDGAALTLRS 379


RESULT 12
US-08-019-870-6
; Sequence 6, Application US/08019870
; Patent No. 5336613
;  GENERAL INFORMATION:
;    APPLICANT:  NIWA, MINEO
;    APPLICANT:  YOSHIMASA, SAITO
;    APPLICANT:  SASAKI, HITOSHI
;    APPLICANT:  ISHII, YOSHINORI
;    TITLE OF INVENTION:  A NEW CEPHALOSPORIN C ACYLASE
;    NUMBER OF SEQUENCES:  42
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 S. Jefferson Davis Highway, Suite 400
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/019,870
;      FILING DATE:  19930219
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5336613man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  18-791-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 413-3000
;      TELEFAX:  (703) 413-2220
;      TELEX:  248855 OPAT UR
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;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  773 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-019-870-6

  Query Match             51.2%;  Score 41;  DB 1;  Length 773;
  Best Local Similarity   72.7%;  Pred. No. 46;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 PQDGDALTLRT 12
              |:|| |||||:
Db        369 PRDGAALTLRS 379


RESULT 13
US-07-747-901A-3
; Sequence 3, Application US/07747901A
; Patent No. 5192678
;  GENERAL INFORMATION:
;    APPLICANT:  Iwami, Morita
;    APPLICANT:  Aramori, Ichiro
;    APPLICANT:  Fukagawa, Masao
;    APPLICANT:  Isogai, Takao
;    APPLICANT:  Kojo, Hitoshi
;    TITLE OF INVENTION:  CEPHALOSPORIN C ACYLASE
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/747,901A
;      FILING DATE:  19910820
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5192678man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  18-709-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)521-4500
;      TELEFAX:  (703)486-2347
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  774 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-747-901A-3

  Query Match             51.2%;  Score 41;  DB 1;  Length 774;
  Best Local Similarity   72.7%;  Pred. No. 46;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 PQDGDALTLRT 12
              |:|| |||||:
Db        370 PRDGAALTLRS 380


RESULT 14
US-07-935-312-3
; Sequence 3, Application US/07935312
; Patent No. 5320948
;  GENERAL INFORMATION:
;    APPLICANT:  Iwami, Morita
;    APPLICANT:  Aramori, Ichiro
;    APPLICANT:  Fukagawa, Masao
;    APPLICANT:  Isogai, Takao
;    APPLICANT:  Kojo, Hitoshi
;    TITLE OF INVENTION:  CEPHALOSPORIN C ACYLASE
;    NUMBER OF SEQUENCES:  3
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 Jefferson Davis Highway, Fourth Floor
;      CITY:  Arlington
;      STATE:  Virginia
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/935,312
;      FILING DATE:  19920826
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5320948man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  18-769-0 DIV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)521-4500
;      TELEFAX:  (703)486-2347
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  774 amino acids
;      TYPE:  AMINO ACID
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-07-935-312-3

  Query Match             51.2%;  Score 41;  DB 1;  Length 774;
  Best Local Similarity   72.7%;  Pred. No. 46;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 PQDGDALTLRT 12
              |:|| |||||:
Db        370 PRDGAALTLRS 380


RESULT 15
US-08-019-870-3
; Sequence 3, Application US/08019870
; Patent No. 5336613
;  GENERAL INFORMATION:
;    APPLICANT:  NIWA, MINEO
;    APPLICANT:  YOSHIMASA, SAITO
;    APPLICANT:  SASAKI, HITOSHI
;    APPLICANT:  ISHII, YOSHINORI
;    TITLE OF INVENTION:  A NEW CEPHALOSPORIN C ACYLASE
;    NUMBER OF SEQUENCES:  42
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT,
;      ADDRESSEE:  P.C.
;      STREET:  1755 S. Jefferson Davis Highway, Suite 400
;      CITY:  Arlington
;      STATE:  Virginia
;      COUNTRY:  U.S.A.
;      ZIP:  22202
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/019,870
;      FILING DATE:  19930219
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Oblon, No. 5336613man F.
;      REGISTRATION NUMBER:  24,618
;      REFERENCE/DOCKET NUMBER:  18-791-0
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703) 413-3000
;      TELEFAX:  (703) 413-2220
;      TELEX:  248855 OPAT UR
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  774 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-019-870-3

  Query Match             51.2%;  Score 41;  DB 1;  Length 774;
  Best Local Similarity   72.7%;  Pred. No. 46;
  Matches    8;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          2 PQDGDALTLRT 12
              |:|| ||||:
Db        370 PRDGAALTLRS 380


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Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-5
Perfect score: 80
Sequence: 1 HPQDGDALTLRTATN 15

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Gapop 10.0 , Gapext 0.5

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	80	100.0	15	14	US-10-354-240-44	Sequence 44, Appl
2	80	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
3	59	73.8	346	10	US-09-847-208-67	Sequence 67, Appl
4	59	73.8	367	10	US-09-847-208-109	Sequence 109, App
5	55	68.8	15	14	US-10-354-240-43	Sequence 43, Appl
6	54	67.5	375	10	US-09-847-208-58	Sequence 58, Appl
7	48	60.0	15	14	US-10-354-240-45	Sequence 45, Appl
8	42	52.5	574	14	US-10-156-761-11937	Sequence 11937, A
9	41	51.2	175	12	US-10-276-774-1665	Sequence 1665, Ap
10	41	51.2	205	12	US-10-282-122A-67632	Sequence 67632, A
11	41	51.2	534	12	US-10-425-114-39261	Sequence 39261, A
12	41	51.2	542	12	US-10-424-599-244216	Sequence 244216,
13	41	51.2	545	12	US-10-425-114-38986	Sequence 38986, A
14	41	51.2	1415	15	US-10-120-801-50	Sequence 50, Appl
15	41	51.2	2448	12	US-10-210-172-48	Sequence 48, Appl
16	41	51.2	3217	16	US-10-311-623-8	Sequence 8, Appli
17	41	51.2	3298	12	US-10-210-172-50	Sequence 50, Appl
18	41	51.2	3298	14	US-10-160-758-16	Sequence 16, Appl
19	41	51.2	3298	14	US-10-174-677-8	Sequence 8, Appli
20	41	51.2	3298	15	US-10-120-801-51	Sequence 51, Appl
21	40.5	50.6	253	12	US-10-282-122A-57066	Sequence 57066, A
22	40.5	50.6	266	9	US-09-815-242-10856	Sequence 10856, A
23	40	50.0	58	11	US-09-864-408A-1484	Sequence 1484, Ap
24	40	50.0	348	12	US-10-282-122A-48724	Sequence 48724, A
25	40	50.0	520	12	US-10-425-114-45308	Sequence 45308, A
26	40	50.0	947	9	US-09-871-889-1	Sequence 1, Appli
27	40	50.0	947	10	US-09-981-397A-18	Sequence 18, Appl
28	40	50.0	947	12	US-10-087-192-888	Sequence 888, App
29	40	50.0	947	15	US-10-394-322A-44	Sequence 44, Appl
30	39	48.8	169	12	US-10-276-774-1372	Sequence 1372, Ap
31	39	48.8	269	15	US-10-369-493-9855	Sequence 9855, Ap
32	39	48.8	353	12	US-10-282-122A-55435	Sequence 55435, A
33	39	48.8	353	12	US-10-205-331-16	Sequence 16, Appl
34	39	48.8	546	12	US-10-425-114-39265	Sequence 39265, A
35	39	48.8	631	12	US-10-282-122A-72489	Sequence 72489, A
36	39	48.8	806	15	US-10-369-493-19787	Sequence 19787, A
37	38	47.5	65	11	US-09-864-408A-8784	Sequence 8784, Ap
38	38	47.5	297	15	US-10-369-493-2669	Sequence 2669, Ap
39	38	47.5	324	14	US-10-281-024-15	Sequence 15, Appl
40	38	47.5	356	15	US-10-369-493-6408	Sequence 6408, Ap
41	38	47.5	623	15	US-10-369-493-19359	Sequence 19359, A
42	37	46.2	157	14	US-10-156-761-14511	Sequence 14511, A
43	37	46.2	166	14	US-10-156-761-10840	Sequence 10840, A
44	37	46.2	215	12	US-10-424-599-236755	Sequence 236755,
45	37	46.2	227	14	US-10-291-190-39	Sequence 39, Appl

ALIGNMENTS

RESULT 1
US-10-354-240-44
; Sequence 44, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 30
US-10-354-240-44

Query Match 100.0%; Score 80; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 1.4e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 HPQDGDALTLRTATN 15
||||||||||||||||
Db 1 HPQDGDALTLRTATN 15

```
RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 80;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 5.9e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTATN 15
              |||||||||||||||
Db        167 HPQDGDALTLRTATN 181


RESULT 3
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Cupressus arizonica
US-09-847-208-67

  Query Match             73.8%;  Score 59;  DB 10;  Length 346;
  Best Local Similarity   66.7%;  Pred. No. 0.034;
  Matches   10;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTATN 15
              | |||||:|:|  ||
Db        146 HAQDGDAITMRNVTN 160


RESULT 4
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

  Query Match             73.8%;  Score 59;  DB 10;  Length 367;
  Best Local Similarity   66.7%;  Pred. No. 0.036;
  Matches   10;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTATN 15
              | |||||:|:|  ||
Db        167 HAQDGDAITMRNVTN 181


RESULT 5
US-10-354-240-43
; Sequence 43, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 29
US-10-354-240-43

  Query Match             68.8%;  Score 55;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.0048;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTL 10
              ||||||||||
Db          6 HPQDGDALTL 15


RESULT 6
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
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;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match             67.5%;  Score 54;  DB 10;  Length 375;
  Best Local Similarity   60.0%;  Pred. No. 0.3;
  Matches    9;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTATN 15
              | |||||:|:|  |:
Db        167 HAQDGDAITMRNVTD 181


RESULT 7
US-10-354-240-45
; Sequence 45, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 31
US-10-354-240-45

  Query Match             60.0%;  Score 48;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.088;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 DALTLRTATN 15
              ||||||||||
Db          1 DALTLRTATN 10


RESULT 8
US-10-156-761-11937
; Sequence 11937, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11937
;   LENGTH: 574
;   TYPE: PRT
;   ORGANISM: Streptomyces avermitilis
US-10-156-761-11937

  Query Match             52.5%;  Score 42;  DB 14;  Length 574;
  Best Local Similarity   75.0%;  Pred. No. 71;
  Matches    9;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          4 DGDALTLRTATN 15
              :| |||||||  |
Db        485 EGAALTLRTAMN 496


RESULT 9
US-10-276-774-1665
; Sequence 1665, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc.
;  APPLICANT:  Tang, Y, Tom et al
;  TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides
;  FILE REFERENCE: 21272-030
;  CURRENT APPLICATION NUMBER: US/10/276,774
;  CURRENT FILING DATE:  2002-11-18
;  PRIOR APPLICATION NUMBER: 09/560,875
;  PRIOR FILING DATE: 2000-04-27
;  PRIOR APPLICATION NUMBER: 09/496,914
;  PRIOR FILING DATE: 2000-02-03
;  NUMBER OF SEQ ID NOS: 2700
;  SOFTWARE: Custom
; SEQ ID NO 1665
;   LENGTH: 175
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-276-774-1665

  Query Match             51.2%;  Score 41;  DB 12;  Length 175;
  Best Local Similarity   58.3%;  Pred. No. 27;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRT 12
              ||| |:  ||:|
Db        124 HPQTGEVTTLQT 135


RESULT 10
US-10-282-122A-67632
; Sequence 67632, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
;  APPLICANT: Wang, Liangsu
;  APPLICANT:  Zamudio, Carlos
;  APPLICANT:  Malone, Cheryl
;  APPLICANT:  Haselbeck, Robert
;  APPLICANT:  Ohlsen, Kari
;  APPLICANT:  Zyskind, Judith
;  APPLICANT:  Wall, Daniel
;  APPLICANT:  Trawick, John
;  APPLICANT:  Carr, Grant
;  APPLICANT:  Yamamoto, Robert
;  APPLICANT:  Forsyth, R.
;  APPLICANT:  Xu, H.
;  TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
;  FILE REFERENCE: ELITRA.034A
;  CURRENT APPLICATION NUMBER: US/10/282,122A
;  CURRENT FILING DATE:  2003-02-20
;  PRIOR APPLICATION NUMBER: 60/191,078
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: 60/206,848
;  PRIOR FILING DATE: 2000-05-23
```

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;  PRIOR APPLICATION NUMBER: 60/207,727
;  PRIOR FILING DATE: 2000-05-26
;  PRIOR APPLICATION NUMBER: 60/230,335
;  PRIOR FILING DATE: 2000-09-06
;  PRIOR APPLICATION NUMBER: 60/230,347
;  PRIOR FILING DATE: 2000-09-09
;  PRIOR APPLICATION NUMBER: 60/242,578
;  PRIOR FILING DATE: 2000-10-23
;  PRIOR APPLICATION NUMBER: 60/253,625
;  PRIOR FILING DATE: 2000-11-27
;  PRIOR APPLICATION NUMBER: 60/257,931
;  PRIOR FILING DATE: 2000-12-22
;  PRIOR APPLICATION NUMBER: 60/267,636
;  PRIOR FILING DATE: 2001-02-09
;  PRIOR APPLICATION NUMBER: 60/269,308
;  PRIOR FILING DATE: 2001-02-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 78614
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67632
;   LENGTH: 205
;   TYPE: PRT
;   ORGANISM: Pseudomonas putida
US-10-282-122A-67632

  Query Match             51.2%;  Score 41;  DB 12;  Length 205;
  Best Local Similarity   77.8%;  Pred. No. 33;
  Matches    7;  Conservative    2;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          4 DGDALTLRT 12
              ||||:|:||
Db        176 DGDAMTMRT 184


RESULT 11
US-10-425-114-39261
; Sequence 39261, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 39261
;   LENGTH: 534
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: LIB3051-006-C10_FLI.pep
US-10-425-114-39261

  Query Match             51.2%;  Score 41;  DB 12;  Length 534;
  Best Local Similarity   53.8%;  Pred. No. 99;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTA 13
              ||:||||   :|:
Db         41 HPEDGDAPRRKTS 53


RESULT 12
US-10-424-599-244216
; Sequence 244216, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 244216
;   LENGTH: 542
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_62554C.1.pep
US-10-424-599-244216

  Query Match             51.2%;  Score 41;  DB 12;  Length 542;
  Best Local Similarity   53.8%;  Pred. No. 1e+02;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTA 13
              ||:||||   :|:
Db         49 HPEDGDAPRRKTS 61


RESULT 13
US-10-425-114-38986
; Sequence 38986, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
;  APPLICANT: Liu, Jingdong
;  APPLICANT:  Zhou, Yihua
;  APPLICANT:  Kovalic, David K.
;  APPLICANT:  Screen, Steven E
;  APPLICANT:  Tabaska, Jack E
;  APPLICANT:  Cao, Yongwei
;  TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53313)B
;  CURRENT APPLICATION NUMBER: US/10/425,114
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 38986
;   LENGTH: 545
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: UC-GMROPIC049E02_FLI.pep
US-10-425-114-38986

  Query Match             51.2%;  Score 41;  DB 12;  Length 545;
  Best Local Similarity   53.8%;  Pred. No. 1e+02;
  Matches    7;  Conservative    3;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRTA 13
              ||:||||   :|:
Db         52 HPEDGDAPRRKTS 64


RESULT 14
US-10-120-801-50
; Sequence 50, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
;  APPLICANT: Pena, Carol
;  APPLICANT:  Guo, Xiaojia
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Kekuda, Ramesh
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Mehraban, Fuad
```

```
;  APPLICANT:  Topper, James N.
;  APPLICANT:  Malyankar, Uriel
;  APPLICANT:  Wasserman, Scott
;  APPLICANT:  Edinger, Shlomit
;  APPLICANT:  Smithson, Glennda
;  APPLICANT:  Gunther, Erik
;  APPLICANT:  Komuves, Laszlo
;  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
;  FILE REFERENCE: 21402-340
;  CURRENT APPLICATION NUMBER: US/10/120,801
;  CURRENT FILING DATE:  2002-04-11
;  PRIOR APPLICATION NUMBER: 60/285748
;  PRIOR FILING DATE: 2001-04-23
;  PRIOR APPLICATION NUMBER: 60/286068
;  PRIOR FILING DATE: 2001-04-24
;  PRIOR APPLICATION NUMBER: 60/286292
;  PRIOR FILING DATE: 2001-04-25
;  PRIOR APPLICATION NUMBER: 60/288334
;  PRIOR FILING DATE: 2001-05-03
;  PRIOR APPLICATION NUMBER: 60/291241
;  PRIOR FILING DATE: 2001-05-16
;  PRIOR APPLICATION NUMBER: 60/322284
;  PRIOR FILING DATE: 2001-09-14
;  PRIOR APPLICATION NUMBER: 60/285609
;  PRIOR FILING DATE: 2001-04-20
;  NUMBER OF SEQ ID NOS: 155
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 50
;   LENGTH: 1415
;   TYPE: PRT
;   ORGANISM: human
US-10-120-801-50

  Query Match           51.2%;  Score 41;  DB 15;  Length 1415;
  Best Local Similarity  58.3%;  Pred. No. 3.1e+02;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRT 12
              |||  |:  ||:|
Db         85 HPQTGEVTTLQT 96


RESULT 15
US-10-210-172-48
; Sequence 48, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
;  APPLICANT: Kekuda, Ramesh
;  APPLICANT:  Miller, Charles
;  APPLICANT:  Patturajan, Meera
;  APPLICANT:  Pena, Carol
;  APPLICANT:  Rieger, Daniel
;  APPLICANT:  Shimkets, Richard
;  APPLICANT:  Zerhusen, Bryan
;  APPLICANT:  Li, Li
;  APPLICANT:  Ji, Weizhen
;  APPLICANT:  Padigaru, Muralidhara
;  APPLICANT:  Casman, Stacie
;  APPLICANT:  Voss, Edward
;  APPLICANT:  Boldog, Ferenc
;  APPLICANT:  Gorman, Linda
;  APPLICANT:  Leite, Mario
;  APPLICANT:  Vernet, Corine
;  APPLICANT:  Anderson, David
;  APPLICANT:  Guo, Xiaojia
;  APPLICANT:  Zhong, Mei
;  APPLICANT:  Gerlach, Valerie
;  APPLICANT:  Hjalt, Tord
;  APPLICANT:  Rastelli, Luca
;  APPLICANT:  Spytek, Kimberly
;  APPLICANT:  Edinger, Shlomit
;  APPLICANT:  Ellerman, Karen
;  APPLICANT:  Malyankar, Uriel
;  APPLICANT:  MacDougall, John
;  APPLICANT:  Stone, David
;  APPLICANT:  Alsobrook II, John
;  APPLICANT:  Lepley, Denise et al.
;  TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOI
;  FILE REFERENCE: 21402-416 A
;  CURRENT APPLICATION NUMBER: US/10/210,172
;  CURRENT FILING DATE:  2001-08-01
;  PRIOR APPLICATION NUMBER: 60/309,501
;  PRIOR FILING DATE: 2001-08-02
;  PRIOR APPLICATION NUMBER: 60/323,994
;  PRIOR FILING DATE: 2001-09-21
;  PRIOR APPLICATION NUMBER: 60/373,814
;  PRIOR FILING DATE: 2002-04-19
;  PRIOR APPLICATION NUMBER: 60/310,291
;  PRIOR FILING DATE: 2001-08-03
;  PRIOR APPLICATION NUMBER: 60/310,951
;  PRIOR FILING DATE: 2001-08-08
;  PRIOR APPLICATION NUMBER: 60/310,544
;  PRIOR FILING DATE: 2001-08-07
;  PRIOR APPLICATION NUMBER: 60/311,292
;  PRIOR FILING DATE: 2001-08-09
;  PRIOR APPLICATION NUMBER: 60/311,979
;  PRIOR FILING DATE: 2001-08-13
;  PRIOR APPLICATION NUMBER: 60/313,201
;  PRIOR FILING DATE: 2001-08-17
;  PRIOR APPLICATION NUMBER: 60/312,892
;  PRIOR FILING DATE: 2001-08-16
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 327
;  SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 48
;   LENGTH: 2448
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-210-172-48

  Query Match           51.2%;  Score 41;  DB 12;  Length 2448;
  Best Local Similarity  58.3%;  Pred. No. 5.7e+02;
  Matches    7;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 HPQDGDALTLRT 12
              |||  |:  ||:|
Db       1157 HPQTGEVTTLQT 1168


Search completed: April 19, 2004, 11:29:27
Job time : 68.3163 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 8.81633 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-4
Perfect score: 42
Sequence: 1 FIKRVSNVI 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	42	100.0	20	3	US-08-467-023-36	Sequence 36, Appl
2	42	100.0	60	3	US-08-467-023-62	Sequence 62, Appl
3	42	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
4	32	76.2	20	3	US-08-467-023-37	Sequence 37, Appl
5	32	76.2	64	4	US-09-134-001C-3006	Sequence 3006, Ap
6	31	73.8	109	4	US-09-198-452A-130	Sequence 130, App
7	31	73.8	528	4	US-09-356-806-8	Sequence 8, Appli
8	31	73.8	585	4	US-09-134-000C-5945	Sequence 5945, Ap
9	30	71.4	103	4	US-09-134-000C-5342	Sequence 5342, Ap
10	30	71.4	486	4	US-09-252-991A-19571	Sequence 19571, A
11	29	69.0	65	4	US-09-134-001C-4419	Sequence 4419, Ap
12	29	69.0	109	4	US-09-107-532A-5605	Sequence 5605, Ap
13	29	69.0	111	4	US-09-775-932-18	Sequence 18, Appl
14	29	69.0	144	4	US-09-134-000C-4295	Sequence 4295, Ap
15	29	69.0	151	4	US-09-328-352-4208	Sequence 4208, Ap
16	29	69.0	247	4	US-09-328-352-6868	Sequence 6868, Ap
17	29	69.0	263	4	US-09-328-352-5801	Sequence 5801, Ap
18	29	69.0	292	4	US-09-543-681A-7272	Sequence 7272, Ap
19	29	69.0	357	1	US-08-356-405-2	Sequence 2, Appli
20	29	69.0	357	2	US-08-031-538-4	Sequence 4, Appli
21	29	69.0	420	1	US-07-700-526-1	Sequence 1, Appli
22	29	69.0	420	5	PCT-US92-03132-1	Sequence 1, Appli
23	29	69.0	424	2	US-08-978-182-1	Sequence 1, Appli
24	29	69.0	424	2	US-09-205-681-1	Sequence 1, Appli
25	29	69.0	496	4	US-09-543-681A-7087	Sequence 7087, Ap
26	29	69.0	538	4	US-09-328-352-5741	Sequence 5741, Ap
27	29	69.0	613	4	US-09-328-352-7962	Sequence 7962, Ap
28	29	69.0	633	4	US-09-328-352-5439	Sequence 5439, Ap
29	29	69.0	692	4	US-09-489-039A-10764	Sequence 10764, A
30	29	69.0	693	4	US-09-543-681A-6842	Sequence 6842, Ap
31	29	69.0	695	4	US-09-252-991A-19147	Sequence 19147, A
32	29	69.0	946	3	US-09-074-579-3	Sequence 3, Appli
33	29	69.0	946	3	US-09-388-774-3	Sequence 3, Appli
34	29	69.0	946	4	US-09-546-153-1	Sequence 1, Appli
35	29	69.0	1116	4	US-09-543-681A-4379	Sequence 4379, Ap
36	29	69.0	1199	3	US-09-208-742-2	Sequence 2, Appli
37	29	69.0	1199	4	US-09-332-295-4	Sequence 4, Appli
38	29	69.0	1199	4	US-09-709-979-4	Sequence 4, Appli
39	29	69.0	1199	4	US-10-147-268-4	Sequence 4, Appli
40	29	69.0	1447	3	US-09-041-886-25	Sequence 25, Appl
41	29	69.0	1447	5	PCT-US94-05277-2	Sequence 2, Appli
42	28	66.7	63	4	US-09-489-039A-13289	Sequence 13289, A
43	28	66.7	65	4	US-09-134-000C-5908	Sequence 5908, Ap
44	28	66.7	67	4	US-09-543-681A-7267	Sequence 7267, Ap
45	28	66.7	113	4	US-09-198-452A-450	Sequence 450, App

ALIGNMENTS

RESULT 1
US-08-467-023-36
; Sequence 36, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

US-08-467-023-36

Query Match 100.0%; Score 42; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.042;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 FIKRVSNVI 9
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Db          9 FIKRVSNVI 17
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RESULT 2
US-08-467-023-62
; Sequence 62, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 62:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-62

Query Match 100.0%; Score 42; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 FIKRVSNVI 9
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Db         49 FIKRVSNVI 57
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RESULT 3

US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-467-023-2

Query Match 100.0%; Score 42; DB 3; Length 374;
Best Local Similarity 100.0%; Pred. No. 0.79;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 FIKRVSNVI 9
              |||||||||
Db        130 FIKRVSNVI 138
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RESULT 4
US-08-467-023-37
; Sequence 37, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.

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;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  37:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-37

  Query Match             76.2%;  Score 32;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 4.3;
  Matches    7;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 KRVSNVI 9
              |||||||
Db          1 KRVSNVI 7


RESULT 5
US-09-134-001C-3006
; Sequence 3006, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3006
;   LENGTH: 64
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3006

  Query Match             76.2%;  Score 32;  DB 4;  Length 64;
  Best Local Similarity   62.5%;  Pred. No. 14;
  Matches    5;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNV 8
              |:||:||:
Db          6 FLKRLSNI 13


RESULT 6
US-09-198-452A-130
; Sequence 130, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 130
;   LENGTH: 109
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: 1...109
;   OTHER INFORMATION: Xaa=unknown or other
US-09-198-452A-130

  Query Match             73.8%;  Score 31;  DB 4;  Length 109;
  Best Local Similarity   75.0%;  Pred. No. 38;
  Matches    6;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNV 8
              |:|| |||
Db         73 FLKRYSNV 80


RESULT 7
US-09-356-806-8
; Sequence 8, Application US/09356806
; Patent No. 6586175
; GENERAL INFORMATION:
;  APPLICANT: Penny, Laura
;  APPLICANT: Galvin, Margaret
;  APPLICANT: Miller, Andrew
;  APPLICANT: Reidy, Michael
;  TITLE OF INVENTION: Genotyping Human
;  TITLE OF INVENTION: UDP-Glucuronosyltransferase 2B4 (UGT2B4), 2B7 (UGT2B7) and
;  TITLE OF INVENTION: 2B15 (UGT2B15) Genes
;  FILE REFERENCE: SEQ-22PRV2
;  CURRENT APPLICATION NUMBER: US/09/356,806
;  CURRENT FILING DATE: 1999-07-20
;  NUMBER OF SEQ ID NOS: 164
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 8
;   LENGTH: 528
;   TYPE: PRT
;   ORGANISM: H. sapiens
US-09-356-806-8

  Query Match             73.8%;  Score 31;  DB 4;  Length 528;
  Best Local Similarity   66.7%;  Pred. No. 1.8e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              ||:|| |:|
Db        207 FIERVKNMI 215


RESULT 8
US-09-134-000C-5945
; Sequence 5945, Application US/09134000C
; Patent No. 6617156
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; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5945
;   LENGTH: 585
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-5945

  Query Match             73.8%;  Score 31;  DB 4;  Length 585;
  Best Local Similarity   87.5%;  Pred. No. 2e+02;
  Matches    7;  Conservative    0;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNV 8
              | ||||||
Db        533 FKKRVSNV 540


RESULT 9
US-09-134-000C-5342
; Sequence 5342, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5342
;   LENGTH: 103
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-5342

  Query Match             71.4%;  Score 30;  DB 4;  Length 103;
  Best Local Similarity   55.6%;  Pred. No. 57;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              ||:|: |:|
Db         94 FIERIENMI 102


RESULT 10
US-09-252-991A-19571
; Sequence 19571, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 19571
;   LENGTH: 486
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19571

  Query Match             71.4%;  Score 30;  DB 4;  Length 486;
  Best Local Similarity   66.7%;  Pred. No. 2.7e+02;
  Matches    6;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              ||:|||:|:
Db        228 FIERVSHVM 236


RESULT 11
US-09-134-001C-4419
; Sequence 4419, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4419
;   LENGTH: 65
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4419

  Query Match             69.0%;  Score 29;  DB 4;  Length 65;
  Best Local Similarity   62.5%;  Pred. No. 57;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNV 8
              :|| :|||
Db         29 YIKEISNV 36


RESULT 12
US-09-107-532A-5605
; Sequence 5605, Application US/09107532A
; Patent No. 6583275
;  GENERAL INFORMATION:
;       APPLICANT: Lynn A Doucette-Stamm  and David Bush
;       TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                           ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;       NUMBER OF SEQUENCES: 7310
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;            STREET: 100 Beaver Street
;            CITY: Waltham
;            STATE: Massachusetts
;            COUNTRY: USA
;            ZIP: 02354
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: CD/ROM ISO9660
;            COMPUTER: PC
;            OPERATING SYSTEM: <Unknown>
;            SOFTWARE: ASCII
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/107,532A
;            FILING DATE: 30-Jun-1998
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 60/085,598
;            FILING DATE: 14 May 1998
;            APPLICATION NUMBER: 60/051571
```

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;            FILING DATE: July 2, 1997
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Ariniello, Pamela Deneke
;            REGISTRATION NUMBER: 40,489
;            REFERENCE/DOCKET NUMBER: GTC-012
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (781)893-5007
;            TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 5605:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 109 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       HYPOTHETICAL: YES
;       ORIGINAL SOURCE:
;            ORGANISM: Enterococcus faecium
;       FEATURE:
;            NAME/KEY:  misc_feature
;            LOCATION: (B) LOCATION 1...109
;       SEQUENCE DESCRIPTION: SEQ ID NO: 5605:
US-09-107-532A-5605

  Query Match             69.0%;  Score 29;  DB 4;  Length 109;
  Best Local Similarity   62.5%;  Pred. No. 95;
  Matches    5;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNV 8
              |:||: ||
Db          9 FVKRLRNV 16


RESULT 13
US-09-775-932-18
; Sequence 18, Application US/09775932
; Patent No. 6534477
; GENERAL INFORMATION:
;  APPLICANT:  University of British Columbia
;  TITLE OF INVENTION:  Production and use of Modified Cystatins
;  FILE REFERENCE:  58069
;  CURRENT APPLICATION NUMBER: US/09/775,932
;  CURRENT FILING DATE:  2001-02-02
;  PRIOR APPLICATION NUMBER:  CA99/00717
;  PRIOR FILING DATE:  1999-08-05
;  PRIOR APPLICATION NUMBER:  60/095,503
;  PRIOR FILING DATE:  1998-08-05
;  NUMBER OF SEQ ID NOS:  32
;  SOFTWARE:  PatentIn Ver. 2.0
; SEQ ID NO 18
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Cyprinus carpio
US-09-775-932-18

  Query Match             69.0%;  Score 29;  DB 4;  Length 111;
  Best Local Similarity   55.6%;  Pred. No. 97;
  Matches    5;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |:::|| ||
Db         36 FVRKVSKVI 44


RESULT 14
US-09-134-000C-4295
; Sequence 4295, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4295
;   LENGTH: 144
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-4295

  Query Match             69.0%;  Score 29;  DB 4;  Length 144;
  Best Local Similarity   85.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 KRVSNVI 9
              |||||:|
Db          4 KRVSNLI 10


RESULT 15
US-09-328-352-4208
; Sequence 4208, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
;  APPLICANT: Gary L. Breton et al.
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
;  TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC99-03PA
;  CURRENT APPLICATION NUMBER: US/09/328,352
;  CURRENT FILING DATE: 1999-06-04
;  NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4208
;   LENGTH: 151
;   TYPE: PRT
;   ORGANISM: Acinetobacter baumannii
US-09-328-352-4208

  Query Match             69.0%;  Score 29;  DB 4;  Length 151;
  Best Local Similarity   66.7%;  Pred. No. 1.3e+02;
  Matches    6;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              ||:||| |:
Db         46 FIQRVSAVV 54


Search completed: April 19, 2004, 12:38:15
Job time : 9.81633 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-1
Perfect score: 79
Sequence: 1 QNRMKLADCAVGFGS 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	79	100.0	20	3	US-08-467-023-27	Sequence 27, Appl
2	79	100.0	50	3	US-08-467-023-66	Sequence 66, Appl
3	79	100.0	60	3	US-08-467-023-61	Sequence 61, Appl
4	79	100.0	367	3	US-08-467-023-95	Sequence 95, Appl
5	79	100.0	370	3	US-08-467-023-97	Sequence 97, Appl
6	79	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
7	54	68.4	33	1	US-08-290-448A-5	Sequence 5, Appli
8	54	68.4	33	1	US-08-290-448A-5	Sequence 5, Appli
9	54	68.4	33	1	US-08-175-069A-5	Sequence 5, Appli
10	54	68.4	33	4	US-08-461-939B-5	Sequence 5, Appli
11	54	68.4	33	4	US-08-464-000-5	Sequence 5, Appli
12	54	68.4	48	1	US-08-290-448A-4	Sequence 4, Appli
13	54	68.4	48	1	US-08-290-448A-7	Sequence 7, Appli
14	54	68.4	48	1	US-08-290-448A-4	Sequence 4, Appli
15	54	68.4	48	1	US-08-290-448A-7	Sequence 7, Appli
16	54	68.4	48	1	US-08-175-069A-4	Sequence 4, Appli
17	54	68.4	48	1	US-08-175-069A-7	Sequence 7, Appli
18	54	68.4	48	4	US-08-461-939B-4	Sequence 4, Appli
19	54	68.4	48	4	US-08-461-939B-7	Sequence 7, Appli
20	54	68.4	48	4	US-08-464-000-4	Sequence 4, Appli
21	54	68.4	48	4	US-08-464-000-7	Sequence 7, Appli
22	54	68.4	387	1	US-08-290-448A-72	Sequence 72, Appl
23	54	68.4	387	1	US-08-290-448A-72	Sequence 72, Appl
24	54	68.4	387	1	US-08-175-069A-72	Sequence 72, Appl
25	54	68.4	387	4	US-08-461-939B-72	Sequence 72, Appl
26	54	68.4	387	4	US-08-464-000-72	Sequence 72, Appl
27	53	67.1	20	3	US-08-467-023-28	Sequence 28, Appl
28	51	64.6	388	1	US-08-290-448A-80	Sequence 80, Appl
29	51	64.6	388	1	US-08-290-448A-80	Sequence 80, Appl
30	51	64.6	388	1	US-08-175-069A-80	Sequence 80, Appl
31	51	64.6	388	4	US-08-461-939B-80	Sequence 80, Appl
32	51	64.6	388	4	US-08-464-000-80	Sequence 80, Appl
33	48	60.8	33	1	US-08-290-448A-6	Sequence 6, Appli
34	48	60.8	33	1	US-08-290-448A-6	Sequence 6, Appli
35	48	60.8	33	1	US-08-175-069A-6	Sequence 6, Appli
36	48	60.8	33	4	US-08-461-939B-6	Sequence 6, Appli
37	48	60.8	33	4	US-08-464-000-6	Sequence 6, Appli
38	48	60.8	383	1	US-08-290-448A-78	Sequence 78, Appl
39	48	60.8	383	1	US-08-290-448A-78	Sequence 78, Appl
40	48	60.8	383	1	US-08-175-069A-78	Sequence 78, Appl
41	48	60.8	383	4	US-08-461-939B-78	Sequence 78, Appl
42	48	60.8	383	4	US-08-464-000-78	Sequence 78, Appl
43	47	59.5	391	1	US-08-290-448A-59	Sequence 59, Appl
44	47	59.5	391	1	US-08-290-448A-59	Sequence 59, Appl
45	47	59.5	391	1	US-08-175-069A-59	Sequence 59, Appl

ALIGNMENTS

```
RESULT 1
US-08-467-023-27
; Sequence 27, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-27

Query Match 100.0%; Score 79; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.2e-08;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 QNRMKLADCAVGFGS 15
              |||||||||||||||
Db          6 QNRMKLADCAVGFGS 20
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RESULT 2
US-08-467-023-66
; Sequence 66, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 66:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-66

Query Match 100.0%; Score 79; DB 3; Length 50;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 QNRMKLADCAVGFGS 15
              |||||||||||||||
Db         26 QNRMKLADCAVGFGS 40
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RESULT 3

US-08-467-023-61
; Sequence 61, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 61:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-61

Query Match 100.0%; Score 79; DB 3; Length 60;
Best Local Similarity 100.0%; Pred. No. 3e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 QNRMKLADCAVGFGS 15
              |||||||||||||||
Db         26 QNRMKLADCAVGFGS 40
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RESULT 4
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;

```
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             100.0%;  Score 79;  DB 3;  Length 367;
  Best Local Similarity   100.0%;  Pred. No. 2.1e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGPGS 15
              |||||||||||||||
Db         37 QNRMKLADCAVGPGS 51


RESULT 5
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             100.0%;  Score 79;  DB 3;  Length 370;
  Best Local Similarity   100.0%;  Pred. No. 2.1e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGPGS 15
              |||||||||||||||
Db         37 QNRMKLADCAVGPGS 51


RESULT 6
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
```

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;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 79;  DB 3;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 2.2e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFGS 15
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Db         37 QNRMKLADCAVGFGS 51


RESULT 7
US-08-290-448A-5
; Sequence 5, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  33 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-5

  Query Match             68.4%;  Score 54;  DB 1;  Length 33;
  Best Local Similarity   71.4%;  Pred. No. 0.0052;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  |||||  |||
Db         20 ENRKALADCAQGFG 33


RESULT 8
US-08-290-448A-5
; Sequence 5, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  33 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-5

  Query Match             68.4%;  Score 54;  DB 1;  Length 33;
  Best Local Similarity   71.4%;  Pred. No. 0.0052;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
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Db         20 ENRKALADCAQGFG 33


RESULT 9
US-08-175-069A-5
; Sequence 5, Application US/08175069A
; Patent No. 5776761
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
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;       STREET:  60 State Street
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/175,069A
;       FILING DATE:  December 29, 1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/529,951
;       FILING DATE:  May 29, 1990
;       APPLICATION NUMBER:  US 07/325,365
;       FILING DATE:  March 17, 1989
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Amy E. Mandragouras
;       REGISTRATION NUMBER:  36,207
;       REFERENCE/DOCKET NUMBER:  IMI-018DV
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  33 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-175-069A-5

  Query Match             68.4%;  Score 54;  DB 1;  Length 33;
  Best Local Similarity   71.4%;  Pred. No. 0.0052;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         20 ENRKALADCAQGFG 33


RESULT 10
US-08-461-939B-5
; Sequence 5, Application US/08461939B
; Patent No. 6335019
;  GENERAL INFORMATION:
;     APPLICANT:  Rogers, Bruce
;     APPLICANT:  Klapper, David G.
;     APPLICANT:  Rafnar, Thorunn
;     APPLICANT:  Kuo, Mei-chang
;     TITLE OF INVENTION:  Methods For Treating Sensitivity To A
;     TITLE OF INVENTION:  Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
;     NUMBER OF SEQUENCES:  93
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;       STREET:  28 State Street
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/461,939B
;       FILING DATE:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/464,000
;       FILING DATE:  05-JUN-1995
;       APPLICATION NUMBER:  US 08/290,448
;       FILING DATE:  15-AUG-1994
;       APPLICATION NUMBER:  US 07/529,951
;       FILING DATE:  29-MAY-1990
;       APPLICATION NUMBER:  US 07/325,365
;       FILING DATE:  17-MAR-1989
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Amy E. Mandragouras
;       REGISTRATION NUMBER:  36,207
;       REFERENCE/DOCKET NUMBER:  IMI-018CNDV
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)742-4214
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  33 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
;     FRAGMENT TYPE:  internal
US-08-461-939B-5

  Query Match             68.4%;  Score 54;  DB 4;  Length 33;
  Best Local Similarity   71.4%;  Pred. No. 0.0052;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         20 ENRKALADCAQGFG 33


RESULT 11
US-08-464-000-5
; Sequence 5, Application US/08464000
; Patent No. 6335020
;  GENERAL INFORMATION:
;     APPLICANT:  Rogers, Bruce
;     APPLICANT:  Klapper, David G.
;     APPLICANT:  Rafnar, Thorunn
;     APPLICANT:  Kuo, Mei-chang
;     TITLE OF INVENTION:  Allergenic Peptides from Ragweed Pollen
;     NUMBER OF SEQUENCES:  93
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;       STREET:  60 State Street
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/464,000
;       FILING DATE:  05-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/290,448
;       FILING DATE:  15-AUG-1994
;       APPLICATION NUMBER:  US 07/529,951
;       FILING DATE:  29-MAY-1990
;       APPLICATION NUMBER:  US 07/325,365
;       FILING DATE:  17-MAR-1989
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Amy E. Mandragouras
;       REGISTRATION NUMBER:  36,207
;       REFERENCE/DOCKET NUMBER:  IMI-018CN2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
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;      LENGTH:  33 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-464-000-5

  Query Match             68.4%;  Score 54;  DB 4;  Length 33;
  Best Local Similarity   71.4%;  Pred. No. 0.0052;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         20 ENRKALADCAQGFG 33


RESULT 12
US-08-290-448A-4
; Sequence 4, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  48 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-4

  Query Match             68.4%;  Score 54;  DB 1;  Length 48;
  Best Local Similarity   71.4%;  Pred. No. 0.0079;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         20 ENRKALADCAQGFG 33


RESULT 13
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US-08-290-448A-7
; Sequence 7, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  48 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-7

  Query Match             68.4%;  Score 54;  DB 1;  Length 48;
  Best Local Similarity   71.4%;  Pred. No. 0.0079;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         20 ENRKALADCAQGFG 33


RESULT 14
US-08-290-448A-4
; Sequence 4, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
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;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  48 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-4

  Query Match             68.4%;  Score 54;  DB 1;  Length 48;
  Best Local Similarity   71.4%;  Pred. No. 0.0079;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         20 ENRKALADCAQGFG 33


RESULT 15
US-08-290-448A-7
; Sequence 7, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  48 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-290-448A-7

  Query Match             68.4%;  Score 54;  DB 1;  Length 48;
  Best Local Similarity   71.4%;  Pred. No. 0.0079;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
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Db         20 ENRKALADCAQGFG 33


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Job time : 14.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-1
Perfect score: 79
Sequence: 1 QNRMKLADCAVGFGS 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
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2	79	100.0	367	10	US-09-847-208-109	Sequence 109, App
3	79	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
4	79	100.0	375	10	US-09-847-208-58	Sequence 58, Appl
5	75	94.9	346	10	US-09-847-208-67	Sequence 67, Appl
6	66	83.5	409	12	US-10-424-599-279664	Sequence 279664,
7	62	78.5	206	12	US-10-424-599-230302	Sequence 230302,
8	61	77.2	313	12	US-10-424-599-239010	Sequence 239010,
9	61	77.2	404	12	US-10-424-599-190695	Sequence 190695,
10	59	74.7	435	12	US-10-424-599-239482	Sequence 239482,
11	58	73.4	187	12	US-10-424-599-151150	Sequence 151150,
12	57	72.2	450	12	US-10-424-599-234547	Sequence 234547,
13	55	69.6	196	12	US-10-424-599-260225	Sequence 260225,
14	54	68.4	396	10	US-09-847-208-13	Sequence 13, Appl
15	53	67.1	15	14	US-10-354-240-17	Sequence 17, Appl
16	53	67.1	15	14	US-10-354-240-19	Sequence 19, Appl
17	52	65.8	378	12	US-10-424-599-149825	Sequence 149825,
18	49	62.0	191	12	US-10-424-599-155739	Sequence 155739,
19	49	62.0	256	12	US-10-424-599-213740	Sequence 213740,
20	48	60.8	392	10	US-09-847-208-16	Sequence 16, Appl
21	47	59.5	397	10	US-09-847-208-15	Sequence 15, Appl
22	47	59.5	398	10	US-09-847-208-14	Sequence 14, Appl
23	46	58.2	397	10	US-09-847-208-17	Sequence 17, Appl
24	45	57.0	214	12	US-10-424-599-205786	Sequence 205786,
25	44	55.7	782	14	US-10-124-436-1	Sequence 1, Appli
26	42	53.2	114	12	US-10-424-599-208748	Sequence 208748,
27	42	53.2	291	15	US-10-369-493-19645	Sequence 19645, A
28	40	50.6	107	12	US-10-424-599-226795	Sequence 226795,
29	40	50.6	177	12	US-10-424-599-226794	Sequence 226794,
30	40	50.6	443	12	US-10-424-599-162863	Sequence 162863,
31	40	50.6	496	15	US-10-369-493-20440	Sequence 20440, A
32	39	49.4	151	12	US-10-424-599-260068	Sequence 260068,
33	39	49.4	220	12	US-10-282-122A-50136	Sequence 50136, A
34	39	49.4	246	12	US-10-425-114-70400	Sequence 70400, A
35	39	49.4	251	12	US-10-425-114-64778	Sequence 64778, A
36	39	49.4	258	14	US-10-313-852-7	Sequence 7, Appli
37	39	49.4	258	14	US-10-314-033-7	Sequence 7, Appli
38	39	49.4	330	12	US-10-282-122A-74263	Sequence 74263, A
39	39	49.4	487	14	US-10-313-852-14	Sequence 14, Appl
40	39	49.4	487	14	US-10-314-033-14	Sequence 14, Appl
41	39	49.4	791	12	US-10-424-599-163666	Sequence 163666,
42	38	48.1	49	14	US-10-029-386-28259	Sequence 28259, A
43	38	48.1	75	12	US-10-424-599-241030	Sequence 241030,
44	38	48.1	125	12	US-10-424-599-213877	Sequence 213877,
45	38	48.1	174	12	US-10-424-599-197391	Sequence 197391,

ALIGNMENTS

RESULT 1
US-10-354-240-18
; Sequence 18, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseas
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 4
US-10-354-240-18

Query Match 100.0%; Score 79; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFGS 15
||||||||||||||| |
Db 1 QNRMKLADCAVGFGS 15

RESULT 2
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

Query Match 100.0%; Score 79; DB 10; Length 367;
Best Local Similarity 100.0%; Pred. No. 8.2e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFGS 15
||||||||||||||||
Db 37 QNRMKLADCAVGFGS 51

RESULT 3
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

Query Match 100.0%; Score 79; DB 10; Length 374;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFGS 15
||||||||||||||||
Db 37 QNRMKLADCAVGFGS 51

RESULT 4
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 375
; TYPE: PRT
; ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

Query Match 100.0%; Score 79; DB 10; Length 375;
Best Local Similarity 100.0%; Pred. No. 8.4e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFGS 15
||||||||||||||||
Db 37 QNRMKLADCAVGFGS 51

RESULT 5
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
; APPLICANT: Saxon, Andrew
; APPLICANT: Zhang, Ke
; APPLICANT: Zhu, Daocheng
; TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
; TITLE OF INVENTION: IgE-MEDIATED ALLERGIC DISEASES
; FILE REFERENCE: UC67.002A
; CURRENT APPLICATION NUMBER: US/09/847,208
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Cupressus arizonica
US-09-847-208-67

Query Match 94.9%; Score 75; DB 10; Length 346;
Best Local Similarity 93.3%; Pred. No. 4e-05;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 QNRMKLADCAVGFGS 15
||||||||| |||||
Db 16 QNRMKLADCVVGFGS 30

RESULT 6
US-10-424-599-279664
; Sequence 279664, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 279664
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(409)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_94559C.1.pep

US-10-424-599-279664

Query Match 83.5%; Score 66; DB 12; Length 409;
Best Local Similarity 78.6%; Pred. No. 0.002;
Matches 11; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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Qy          1 QNRMKLADCAVGFG 14
              ||| :|||||:|||
Db         74 QNRQRLADCAIGFG 87
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RESULT 7
US-10-424-599-230302
; Sequence 230302, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 230302
; LENGTH: 206
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_49987C.1.pep
US-10-424-599-230302

Query Match 78.5%; Score 62; DB 12; Length 206;
Best Local Similarity 71.4%; Pred. No. 0.0049;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 QNRMKLADCAVGFG 14
              :|| :|||||:|||
Db         72 KNRQRLADCAIGFG 85
```

RESULT 8
US-10-424-599-239010
; Sequence 239010, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239010
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_57851C.1.pep
US-10-424-599-239010

Query Match 77.2%; Score 61; DB 12; Length 313;
Best Local Similarity 76.9%; Pred. No. 0.012;
Matches 10; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 NRMKLADCAVGFG 14
              || :|||||:|||
Db         85 NRQRLADCAIGFG 97
```

RESULT 9
US-10-424-599-190695
; Sequence 190695, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 190695
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_143217C.1.pep
US-10-424-599-190695

Query Match 77.2%; Score 61; DB 12; Length 404;
Best Local Similarity 76.9%; Pred. No. 0.015;
Matches 10; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```
Qy          2 NRMKLADCAVGFG 14
              || :|||||:|||
Db         71 NRQRLADCAIGFG 83
```

RESULT 10
US-10-424-599-239482
; Sequence 239482, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 239482
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(435)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_58278C.1.pep
US-10-424-599-239482

Query Match 74.7%; Score 59; DB 12; Length 435;
Best Local Similarity 71.4%; Pred. No. 0.038;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```
Qy          1 QNRMKLADCAVGFG 14
              :|| :|||||:|||
Db        103 KNRKRLADCALGFG 116
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RESULT 11
US-10-424-599-151150
; Sequence 151150, Application US/10424599

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; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 151150
;   LENGTH: 187
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   NAME/KEY: unsure
;   LOCATION: (1)..(187)
;   OTHER INFORMATION: unsure at all Xaa locations
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_107511C.1.pep
US-10-424-599-151150

  Query Match             73.4%;  Score 58;  DB 12;  Length 187;
  Best Local Similarity   64.3%;  Pred. No. 0.023;
  Matches    9;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :|| :|||| ::|||
Db        123 KNRKRLADCSIGFG 136


RESULT 12
US-10-424-599-234547
; Sequence 234547, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 234547
;   LENGTH: 450
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_53823C.1.pep
US-10-424-599-234547

  Query Match             72.2%;  Score 57;  DB 12;  Length 450;
  Best Local Similarity   64.3%;  Pred. No. 0.091;
  Matches    9;  Conservative    3;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :|| :|||| :|||
Db        116 RNRKRLADCGIGFG 129


RESULT 13
US-10-424-599-260225
; Sequence 260225, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 260225
;   LENGTH: 196
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_77006C.1.pep
US-10-424-599-260225

  Query Match             69.6%;  Score 55;  DB 12;  Length 196;
  Best Local Similarity   76.9%;  Pred. No. 0.084;
  Matches   10;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 NRMKLADCAVGFG 14
              || ||||| |||
Db        116 NRQKLADCVQGFG 128


RESULT 14
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 396
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

  Query Match             68.4%;  Score 54;  DB 10;  Length 396;
  Best Local Similarity   71.4%;  Pred. No. 0.27;
  Matches   10;  Conservative    1;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCAVGFG 14
              :||  ||||| |||
Db         62 ENRKALADCAQGFG 75


RESULT 15
US-10-354-240-17
; Sequence 17, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
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;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 3
US-10-354-240-17

  Query Match             67.1%;  Score 53;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 QNRMKLADCA 10
              ||||||||||
Db          6 QNRMKLADCA 15


Search completed: April 19, 2004, 11:29:26
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-2
Perfect score: 83
Sequence: 1 GATRDRPLWIIFSGN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	83	100.0	15	14	US-10-354-240-27	Sequence 27, Appl
2	83	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
3	63	75.9	375	10	US-09-847-208-58	Sequence 58, Appl
4	63	75.9	397	10	US-09-847-208-17	Sequence 17, Appl
5	60	72.3	346	10	US-09-847-208-67	Sequence 67, Appl
6	60	72.3	367	10	US-09-847-208-109	Sequence 109, App
7	57	68.7	15	14	US-10-354-240-26	Sequence 26, Appl
8	57	68.7	15	14	US-10-354-240-28	Sequence 28, Appl
9	57	68.7	134	14	US-10-354-240-3	Sequence 3, Appli
10	54	65.1	392	10	US-09-847-208-16	Sequence 16, Appl
11	53	63.9	396	10	US-09-847-208-13	Sequence 13, Appl
12	51	61.4	196	12	US-10-424-599-260225	Sequence 260225,
13	51	61.4	398	10	US-09-847-208-14	Sequence 14, Appl
14	50	60.2	497	14	US-10-156-761-9418	Sequence 9418, Ap
15	48	57.8	397	10	US-09-847-208-15	Sequence 15, Appl
16	47	56.6	214	12	US-10-424-599-205786	Sequence 205786,
17	47	56.6	450	12	US-10-424-599-234547	Sequence 234547,
18	46	55.4	404	12	US-10-424-599-190695	Sequence 190695,
19	45	54.2	84	12	US-10-424-599-258930	Sequence 258930,
20	45	54.2	525	14	US-10-156-761-15017	Sequence 15017, A
21	45	54.2	791	12	US-10-282-122A-68615	Sequence 68615, A
22	44	53.0	187	12	US-10-424-599-151150	Sequence 151150,
23	44	53.0	191	12	US-10-424-599-155739	Sequence 155739,
24	44	53.0	200	12	US-10-424-599-206767	Sequence 206767,
25	44	53.0	206	12	US-10-424-599-230302	Sequence 230302,
26	44	53.0	256	12	US-10-424-599-213740	Sequence 213740,
27	44	53.0	378	12	US-10-424-599-149825	Sequence 149825,
28	44	53.0	409	12	US-10-424-599-279664	Sequence 279664,
29	44	53.0	600	15	US-10-108-260A-4883	Sequence 4883, Ap
30	44	53.0	672	14	US-10-156-761-8104	Sequence 8104, Ap
31	44	53.0	1337	15	US-10-144-194A-40	Sequence 40, Appl
32	42	50.6	313	12	US-10-424-599-239010	Sequence 239010,
33	42	50.6	435	12	US-10-424-599-239482	Sequence 239482,
34	42	50.6	497	14	US-10-156-761-8691	Sequence 8691, Ap
35	42	50.6	651	15	US-10-369-493-8731	Sequence 8731, Ap
36	41.5	50.0	181	12	US-10-282-122A-47778	Sequence 47778, A
37	41	49.4	91	9	US-09-764-860-419	Sequence 419, App
38	41	49.4	91	14	US-10-074-095-419	Sequence 419, App
39	41	49.4	91	15	US-10-212-872-419	Sequence 419, App
40	41	49.4	360	14	US-10-128-714-3521	Sequence 3521, Ap
41	41	49.4	360	14	US-10-128-714-8521	Sequence 8521, Ap
42	41	49.4	411	12	US-10-282-122A-59555	Sequence 59555, A
43	41	49.4	418	12	US-10-282-122A-43285	Sequence 43285, A
44	41	49.4	2509	14	US-10-237-271-1	Sequence 1, Appli
45	41	49.4	4498	14	US-10-156-761-9905	Sequence 9905, Ap

ALIGNMENTS

RESULT 1
US-10-354-240-27
; Sequence 27, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 13
US-10-354-240-27

Query Match 100.0%; Score 83; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GATRDRPLWIIFSGN 15
||||||||||||||||
Db 1 GATRDRPLWIIFSGN 15

```
RESULT 2
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match           100.0%;  Score 83;  DB 10;  Length 374;
  Best Local Similarity  100.0%;  Pred. No. 1.4e-05;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
              |||||||||||||||
Db         82 GATRDRPLWIIFSGN 96


RESULT 3
US-09-847-208-58
; Sequence 58, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 375
;   TYPE: PRT
;   ORGANISM: Chamaecyparis obtusa (Japanese cypress)
US-09-847-208-58

  Query Match           75.9%;  Score 63;  DB 10;  Length 375;
  Best Local Similarity  80.0%;  Pred. No. 0.03;
  Matches   12;  Conservative    1;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
              ||||:| |||||| |
Db         82 GATRERSLWIIFSKN 96


RESULT 4
US-09-847-208-17
; Sequence 17, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 17
;   LENGTH: 397
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-17

  Query Match           75.9%;  Score 63;  DB 10;  Length 397;
  Best Local Similarity  91.7%;  Pred. No. 0.032;
  Matches   11;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              |||:||||||||
Db        109 GATQDRPLWIIF 120


RESULT 5
US-09-847-208-67
; Sequence 67, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Cupressus arizonica
US-09-847-208-67

  Query Match           72.3%;  Score 60;  DB 10;  Length 346;
  Best Local Similarity  73.3%;  Pred. No. 0.087;
  Matches   11;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
              ||||:: |||||| |
Db         61 GATREKALWIIFSQN 75


RESULT 6
US-09-847-208-109
; Sequence 109, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 109
;   LENGTH: 367
;   TYPE: PRT
;   ORGANISM: Juniperus ashei (Ozark white cedar)
US-09-847-208-109

  Query Match           72.3%;  Score 60;  DB 10;  Length 367;
  Best Local Similarity  73.3%;  Pred. No. 0.092;
  Matches   11;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;
```

```
Qy          1 GATRDRPLWIIFSGN 15
              ||||:: |||||| |
Db         82 GATREKALWIIFSQN 96
```

```
RESULT 7
US-10-354-240-26
; Sequence 26, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 12
US-10-354-240-26

  Query Match             68.7%;  Score 57;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWI 10
              ||||||||||
Db          6 GATRDRPLWI 15
```

```
RESULT 8
US-10-354-240-28
; Sequence 28, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 28
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 14
US-10-354-240-28

  Query Match             68.7%;  Score 57;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 0.012;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RPLWIIFSGN 15
              ||||||||||
Db          1 RPLWIIFSGN 10
```

```
RESULT 9
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match             68.7%;  Score 57;  DB 14;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 0.11;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RPLWIIFSGN 15
              ||||||||||
Db         73 RPLWIIFSGN 82
```

```
RESULT 10
US-09-847-208-16
; Sequence 16, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 16
;   LENGTH: 392
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-16

  Query Match             65.1%;  Score 54;  DB 10;  Length 392;
  Best Local Similarity   69.2%;  Pred. No. 0.98;
  Matches    9;  Conservative    3;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFS 13
              || ::|||||||:
Db        109 GAAQNRPLWIIFA 121
```

```
RESULT 11
US-09-847-208-13
; Sequence 13, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 396
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-13

  Query Match             63.9%;  Score 53;  DB 10;  Length 396;
  Best Local Similarity   75.0%;  Pred. No. 1.5;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              || ::|||||||
Db        108 GAAQNRPLWIIF 119


RESULT 12
US-10-424-599-260225
; Sequence 260225, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
;  APPLICANT: La Rosa Thomas J
;  APPLICANT:  Kovalic David K
;  APPLICANT:  Zhou Yihua
;  APPLICANT:  Cao Yongwei
;  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
;  TITLE OF INVENTION:  Plants and Uses Thereof for Plant Improvement
;  FILE REFERENCE: 38-21(53223)B
;  CURRENT APPLICATION NUMBER: US/10/424,599
;  CURRENT FILING DATE:  2003-04-28
;  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 260225
;   LENGTH: 196
;   TYPE: PRT
;   ORGANISM: Glycine max
;   FEATURE:
;   OTHER INFORMATION: Clone ID: PAT_MRT3847_77006C.1.pep
US-10-424-599-260225

  Query Match             61.4%;  Score 51;  DB 12;  Length 196;
  Best Local Similarity   81.8%;  Pred. No. 1.6;
  Matches    9;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          3 TRDRPLWIIFS 13
              ||| ||||||:
Db        163 TRDGPLWIIFA 173


RESULT 13
US-09-847-208-14
; Sequence 14, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 398
;   TYPE: PRT
;   ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-14

  Query Match             61.4%;  Score 51;  DB 10;  Length 398;
  Best Local Similarity   64.3%;  Pred. No. 3.1;
  Matches    9;  Conservative    2;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          2 ATRDRPLWIIFSGN 15
              | ::|||||||  |
Db        111 AAQNRPLWIIFKRN 124


RESULT 14
US-10-156-761-9418
; Sequence 9418, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9418
;   LENGTH: 497
;   TYPE: PRT
;   ORGANISM: Streptomyces avermitilis
US-10-156-761-9418

  Query Match             60.2%;  Score 50;  DB 14;  Length 497;
  Best Local Similarity   70.0%;  Pred. No. 5.7;
  Matches    7;  Conservative    3;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 RPLWIIFSGN 15
              ||||::|:||
Db        387 RPLWLLFAGN 396


RESULT 15
US-09-847-208-15
; Sequence 15, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
```

; LENGTH: 397
; TYPE: PRT
; ORGANISM: Ambrosia artemisiifolia (Short ragweed)
US-09-847-208-15

Query Match 57.8%; Score 48; DB 10; Length 397;
Best Local Similarity 57.1%; Pred. No. 9.9;
Matches 8; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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Qy          2 ATRDRPLWIIFSGN 15
              | ::|||||||  :
Db        110 AAQNRPLWIIFKND 123
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Search completed: April 19, 2004, 11:29:26
Job time : 68.3163 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 40.9898 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-4
Perfect score: 42
Sequence: 1 FIKRVSNVI 9

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	42	100.0	9	14	US-10-354-240-7	Sequence 7, Appli
2	42	100.0	12	14	US-10-354-240-166	Sequence 166, App
3	42	100.0	12	14	US-10-354-240-171	Sequence 171, App
4	42	100.0	13	14	US-10-354-240-13	Sequence 13, Appl
5	42	100.0	13	14	US-10-354-240-165	Sequence 165, App
6	42	100.0	13	14	US-10-354-240-170	Sequence 170, App
7	42	100.0	13	14	US-10-354-240-174	Sequence 174, App
8	42	100.0	14	14	US-10-354-240-164	Sequence 164, App
9	42	100.0	14	14	US-10-354-240-169	Sequence 169, App
10	42	100.0	15	14	US-10-354-240-36	Sequence 36, Appl
11	42	100.0	15	14	US-10-354-240-159	Sequence 159, App
12	42	100.0	15	14	US-10-354-240-163	Sequence 163, App
13	42	100.0	31	14	US-10-354-240-4	Sequence 4, Appli
14	42	100.0	31	14	US-10-354-240-5	Sequence 5, Appli
15	42	100.0	80	14	US-10-354-240-1	Sequence 1, Appli
16	42	100.0	105	14	US-10-354-240-2	Sequence 2, Appli
17	42	100.0	134	14	US-10-354-240-3	Sequence 3, Appli
18	42	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
19	38	90.5	11	14	US-10-354-240-172	Sequence 172, App
20	36	85.7	9	14	US-10-354-240-14	Sequence 14, Appl
21	36	85.7	11	14	US-10-354-240-167	Sequence 167, App
22	35	83.3	204	12	US-10-425-114-59698	Sequence 59698, A
23	34	81.0	10	14	US-10-354-240-173	Sequence 173, App
24	34	81.0	15	14	US-10-354-240-35	Sequence 35, Appl
25	33	78.6	145	12	US-10-424-599-153799	Sequence 153799,
26	33	78.6	1131	12	US-09-892-635A-19	Sequence 19, Appl
27	32	76.2	10	14	US-10-354-240-168	Sequence 168, App
28	32	76.2	15	14	US-10-354-240-37	Sequence 37, Appl
29	32	76.2	39	12	US-10-282-122A-44398	Sequence 44398, A
30	32	76.2	211	12	US-10-282-122A-74280	Sequence 74280, A
31	32	76.2	468	12	US-10-282-122A-52259	Sequence 52259, A
32	32	76.2	482	15	US-10-369-493-1068	Sequence 1068, Ap
33	32	76.2	484	12	US-10-424-599-230845	Sequence 230845,
34	32	76.2	600	15	US-10-369-493-3669	Sequence 3669, Ap
35	32	76.2	684	12	US-10-282-122A-73860	Sequence 73860, A
36	32	76.2	4097	12	US-10-363-616-415	Sequence 415, App
37	32	76.2	4128	12	US-10-363-616-416	Sequence 416, App
38	31	73.8	89	12	US-10-424-599-281149	Sequence 281149,
39	31	73.8	109	12	US-10-282-122A-54864	Sequence 54864, A
40	31	73.8	109	15	US-10-289-762-130	Sequence 130, App
41	31	73.8	506	12	US-10-424-599-146213	Sequence 146213,
42	31	73.8	528	12	US-10-042-865-145	Sequence 145, App
43	31	73.8	528	12	US-10-042-865-146	Sequence 146, App
44	31	73.8	528	12	US-10-042-865-147	Sequence 147, App
45	31	73.8	528	12	US-10-072-012-503	Sequence 503, App

ALIGNMENTS

RESULT 1
US-10-354-240-7
; Sequence 7, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-7

Query Match 100.0%; Score 42; DB 14; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9
|||||||||
Db 1 FIKRVSNVI 9

RESULT 2
US-10-354-240-166
; Sequence 166, Application US/10354240

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; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 166
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-4.
US-10-354-240-166

  Query Match             100.0%;  Score 42;  DB 14;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 0.056;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          1 FIKRVSNVI 9
```

```
RESULT 3
US-10-354-240-171
; Sequence 171, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
;   LENGTH: 12
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-9.
US-10-354-240-171

  Query Match             100.0%;  Score 42;  DB 14;  Length 12;
  Best Local Similarity   100.0%;  Pred. No. 0.056;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          4 FIKRVSNVI 12
```

```
RESULT 4
US-10-354-240-13
; Sequence 13, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-13

  Query Match             100.0%;  Score 42;  DB 14;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          2 FIKRVSNVI 10
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```
RESULT 5
US-10-354-240-165
; Sequence 165, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 165
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-3.
US-10-354-240-165

  Query Match             100.0%;  Score 42;  DB 14;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          2 FIKRVSNVI 10
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```
RESULT 6
US-10-354-240-170
; Sequence 170, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 170
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-8.
US-10-354-240-170

  Query Match             100.0%;  Score 42;  DB 14;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          4 FIKRVSNVI 12


RESULT 7
US-10-354-240-174
; Sequence 174, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 174
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figures 17 and 18.
US-10-354-240-174

  Query Match             100.0%;  Score 42;  DB 14;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.06;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          2 FIKRVSNVI 10


RESULT 8
US-10-354-240-164
; Sequence 164, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 164
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-2.
US-10-354-240-164

  Query Match             100.0%;  Score 42;  DB 14;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.065;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          3 FIKRVSNVI 11


RESULT 9
US-10-354-240-169
; Sequence 169, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-7.
US-10-354-240-169

  Query Match             100.0%;  Score 42;  DB 14;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 0.065;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
```

```
Qy          1 FIKRVSNVI 9
              |||||||||
Db          4 FIKRVSNVI 12
```

```
RESULT 10
US-10-354-240-36
; Sequence 36, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 22
US-10-354-240-36

  Query Match           100.0%;  Score 42;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          4 FIKRVSNVI 12
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RESULT 11
US-10-354-240-159
; Sequence 159, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Figure 7, Row b
US-10-354-240-159

  Query Match           100.0%;  Score 42;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          4 FIKRVSNVI 12
```

```
RESULT 12
US-10-354-240-163
; Sequence 163, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 163
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-1.
US-10-354-240-163

  Query Match           100.0%;  Score 42;  DB 14;  Length 15;
  Best Local Similarity  100.0%;  Pred. No. 0.07;
  Matches    9;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 FIKRVSNVI 9
              |||||||||
Db          4 FIKRVSNVI 12
```

```
RESULT 13
US-10-354-240-4
; Sequence 4, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
;   LENGTH: 31
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
```

US-10-354-240-4

Query Match 100.0%; Score 42; DB 14; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9
|||||||||
Db 23 FIKRVSNVI 31

RESULT 14
US-10-354-240-5
; Sequence 5, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-5

Query Match 100.0%; Score 42; DB 14; Length 31;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9
|||||||||
Db 23 FIKRVSNVI 31

RESULT 15
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-10-354-240-1

Query Match 100.0%; Score 42; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FIKRVSNVI 9
|||||||||
Db 17 FIKRVSNVI 25

Search completed: April 19, 2004, 11:29:27
Job time : 40.9898 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-3
Perfect score: 80
Sequence: 1 PCVFIKRVSNVIIHG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	80	100.0	20	3	US-08-467-023-36	Sequence 36, Appl
2	80	100.0	60	3	US-08-467-023-62	Sequence 62, Appl
3	80	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
4	61	76.2	370	3	US-08-467-023-97	Sequence 97, Appl
5	55	68.8	367	3	US-08-467-023-95	Sequence 95, Appl
6	50	62.5	20	3	US-08-467-023-37	Sequence 37, Appl
7	41	51.2	3200	2	US-08-477-451-8	Sequence 8, Appli
8	39	48.8	111	4	US-09-134-000C-4011	Sequence 4011, Ap
9	39	48.8	693	4	US-09-252-991A-24059	Sequence 24059, A
10	38	47.5	91	4	US-09-134-001C-3364	Sequence 3364, Ap
11	38	47.5	113	4	US-09-198-452A-450	Sequence 450, App
12	38	47.5	435	4	US-09-134-000C-3644	Sequence 3644, Ap
13	38	47.5	1149	3	US-08-560-005-5	Sequence 5, Appli
14	38	47.5	1149	3	US-09-418-540-5	Sequence 5, Appli
15	38	47.5	1149	4	US-09-969-528-5	Sequence 5, Appli
16	37.5	46.9	54	4	US-09-621-976-4007	Sequence 4007, Ap
17	37	46.2	25	4	US-09-084-303B-259	Sequence 259, App
18	37	46.2	81	4	US-09-084-303B-159	Sequence 159, App
19	36	45.0	124	4	US-09-328-352-5305	Sequence 5305, Ap
20	36	45.0	467	4	US-09-134-001C-5301	Sequence 5301, Ap
21	36	45.0	530	4	US-09-252-991A-23861	Sequence 23861, A
22	36	45.0	921	4	US-09-439-711C-4	Sequence 4, Appli
23	36	45.0	922	4	US-09-116-473-4	Sequence 4, Appli
24	36	45.0	923	3	US-08-936-135-6	Sequence 6, Appli
25	36	45.0	923	4	US-09-439-711C-2	Sequence 2, Appli
26	36	45.0	923	4	US-09-439-711C-6	Sequence 6, Appli
27	36	45.0	923	4	US-09-583-638-2	Sequence 2, Appli
28	35	43.8	92	4	US-09-252-991A-31783	Sequence 31783, A
29	35	43.8	100	4	US-09-227-357-617	Sequence 617, App
30	35	43.8	202	1	US-07-807-022A-1	Sequence 1, Appli
31	35	43.8	237	4	US-09-489-039A-13516	Sequence 13516, A
32	35	43.8	302	4	US-09-910-505B-8	Sequence 8, Appli
33	35	43.8	312	4	US-09-821-736-5	Sequence 5, Appli
34	35	43.8	367	3	US-08-845-258-20	Sequence 20, Appl
35	35	43.8	367	3	US-08-845-258-49	Sequence 49, Appl
36	35	43.8	367	3	US-08-990-571-20	Sequence 20, Appl
37	35	43.8	367	3	US-08-990-571-49	Sequence 49, Appl
38	35	43.8	367	4	US-08-723-142A-20	Sequence 20, Appl
39	35	43.8	367	4	US-08-723-142A-49	Sequence 49, Appl
40	35	43.8	367	4	US-09-528-784A-20	Sequence 20, Appl
41	35	43.8	367	4	US-09-528-784A-49	Sequence 49, Appl
42	35	43.8	367	4	US-09-569-098A-20	Sequence 20, Appl
43	35	43.8	367	4	US-09-569-098A-49	Sequence 49, Appl
44	35	43.8	613	4	US-09-328-352-7962	Sequence 7962, Ap
45	35	43.8	698	4	US-09-107-532A-5685	Sequence 5685, Ap

ALIGNMENTS

```
RESULT 1
US-08-467-023-36
; Sequence 36, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  36:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-36

  Query Match             100.0%;  Score 80;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 2.1e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |||||||||||||||
Db          6 PCVFIKRVSNVIIHG 20


RESULT 2
US-08-467-023-62
; Sequence 62, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  62:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  60 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-62

  Query Match             100.0%;  Score 80;  DB 3;  Length 60;
  Best Local Similarity   100.0%;  Pred. No. 6.5e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |||||||||||||||
Db         46 PCVFIKRVSNVIIHG 60


RESULT 3
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 80;  DB 3;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 4.2e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |||||||||||||||
Db        127 PCVFIKRVSNVIIHG 141


RESULT 4
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
```

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;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             76.2%;  Score 61;  DB 3;  Length 370;
  Best Local Similarity   60.0%;  Pred. No. 0.0083;
  Matches    9;  Conservative    6;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              ||:|:::||:||:||
Db        127 PCLFMRKVSHVILHG 141


RESULT 5
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             68.8%;  Score 55;  DB 3;  Length 367;
  Best Local Similarity   57.1%;  Pred. No. 0.09;
  Matches    8;  Conservative    6;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIH 14
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Db        127 PCLFMRKVSHVILH 140


RESULT 6
US-08-467-023-37
; Sequence 37, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
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;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  37:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-37

  Query Match             62.5%;  Score 50;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.034;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          6 KRVSNVIIHG 15
              ||||||||||
Db          1 KRVSNVIIHG 10


RESULT 7
US-08-477-451-8
; Sequence 8, Application US/08477451
; Patent No. 5928865
;  GENERAL INFORMATION:
;    APPLICANT:  Covacci, Antonello
;    TITLE OF INVENTION:  Helicobacter Pylori Cagi Region
;    NUMBER OF SEQUENCES:  46
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Chiron Corporation
;      STREET:  4560 Horton Street
;      CITY:  Emeryville
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  94608-2916
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/477,451
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  McClung, Barbara G.
;      REGISTRATION NUMBER:  33,113
;      REFERENCE/DOCKET NUMBER:  0335.002
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  510-601-2708
;      TELEFAX:  510-655-3542
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3200 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-477-451-8

  Query Match             51.2%;  Score 41;  DB 2;  Length 3200;
  Best Local Similarity   57.1%;  Pred. No. 2.2e+02;
  Matches    8;  Conservative    1;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          2 CVFIKRVSNVIIHG 15
              |||  :  ||  | |
Db       1271 CVFFRNKSNTIIPG 1284


RESULT 8
US-09-134-000C-4011
; Sequence 4011, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4011
;   LENGTH: 111
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-4011

  Query Match             48.8%;  Score 39;  DB 4;  Length 111;
  Best Local Similarity   40.0%;  Pred. No. 16;
  Matches    6;  Conservative    4;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              | :  :  |:  |  :|||
Db          8 PNILLTRIDNRLIHG 22


RESULT 9
US-09-252-991A-24059
; Sequence 24059, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 24059
;   LENGTH: 693
;   TYPE: PRT
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24059

  Query Match             48.8%;  Score 39;  DB 4;  Length 693;
  Best Local Similarity   33.3%;  Pred. No. 1e+02;
  Matches    4;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          4 FIKRVSNVIIHG 15
              |: |:  :::||
Db        657 FVARIGGIVVHG 668


RESULT 10
US-09-134-001C-3364
; Sequence 3364, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION:  EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
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;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3364
;   LENGTH: 91
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3364

  Query Match             47.5%;  Score 38;  DB 4;  Length 91;
  Best Local Similarity   46.7%;  Pred. No. 19;
  Matches    7;  Conservative    2;  Mismatches    6;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              ||  |   : |:|||
Db         42 PCYTINNKNAVLIHG 56


RESULT 11
US-09-198-452A-450
; Sequence 450, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;  APPLICANT: Griffais, R.
;  TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
;  TITLE OF INVENTION:  thereof and uses thereof, in particular for the diagnosis, preve
;  TITLE OF INVENTION:  and treatment of infection
;  FILE REFERENCE: 9710-003-999
;  CURRENT APPLICATION NUMBER: US/09/198,452A
;  CURRENT FILING DATE:  1998-11-24
;  NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 450
;   LENGTH: 113
;   TYPE: PRT
;   ORGANISM: Chlamydia pneumoniae
US-09-198-452A-450

  Query Match             47.5%;  Score 38;  DB 4;  Length 113;
  Best Local Similarity   54.5%;  Pred. No. 24;
  Matches    6;  Conservative    4;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          4 FIKRVSNVIIH 14
              |:|| |:|::|
Db         22 FLKRYSSVLLH 32


RESULT 12
US-09-134-000C-3644
; Sequence 3644, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;  TITLE OF INVENTION:  ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: 032796-032
;  CURRENT APPLICATION NUMBER: US/09/134,000C
;  CURRENT FILING DATE:  1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/055,778
;  PRIOR FILING DATE: 1997-08-15
;  NUMBER OF SEQ ID NOS: 6812
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3644
;   LENGTH: 435
;   TYPE: PRT
;   ORGANISM: Enterococcus faecalis
US-09-134-000C-3644

  Query Match             47.5%;  Score 38;  DB 4;  Length 435;
  Best Local Similarity   40.0%;  Pred. No. 96;
  Matches    6;  Conservative    4;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |  |||::  |:: |
Db        293 PVPFIKKIMKVVVFG 307


RESULT 13
US-08-560-005-5
; Sequence 5, Application US/08560005
; Patent No. 6001354
;  GENERAL INFORMATION:
;    APPLICANT:  Pot, David A.
;    APPLICANT:  Williams, Lewis T.
;    APPLICANT:  Jefferson, Anne Bennett
;    APPLICANT:  Majerus, Philip W.
;    TITLE OF INVENTION:  No. 6001354el Grb2 Associating Protein and Nucleic
;    TITLE OF INVENTION:  Acids Encoding Therefor
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew
;      STREET:  One Market Plaza, Steuart Tower, Suite 2000
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94105
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/560,005
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Dow, Karen B.
;      REGISTRATION NUMBER:  29,684
;      REFERENCE/DOCKET NUMBER:  2307K-0624000
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-326-2400
;      TELEFAX:  415-326-2422
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1149 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Region
;      LOCATION:  1..1149
;      OTHER INFORMATION:  /note= "51c"
US-08-560-005-5

  Query Match             47.5%;  Score 38;  DB 3;  Length 1149;
  Best Local Similarity   50.0%;  Pred. No. 2.6e+02;
  Matches    7;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIH 14
              ||:|: |||    |
Db         48 PCLFLYRVSESRTH 61


RESULT 14
US-09-418-540-5
; Sequence 5, Application US/09418540
; Patent No. 6296848
;  GENERAL INFORMATION:
;    APPLICANT:  Pot, David A.
;    APPLICANT:  Williams, Lewis T.
;    APPLICANT:  Jefferson, Anne Bennett
;    APPLICANT:  Majerus, Philip W.
;    TITLE OF INVENTION:  No. 6296848el Grb2 Associating Protein and Nucleic
;    TITLE OF INVENTION:  Acids Encoding Therefor
;    NUMBER OF SEQUENCES:  10
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend and Crew
;      STREET:  One Market Plaza, Steuart Tower, Suite 2000
;      CITY:  San Francisco
```

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;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  94105
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/418,540
;       FILING DATE:  14-OCT-1999
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/560,005
;       FILING DATE:  17-NOV-1995
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dow, Karen B.
;       REGISTRATION NUMBER:  29,684
;       REFERENCE/DOCKET NUMBER:  2307K-0624000
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  415-326-2400
;       TELEFAX:  415-326-2422
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  1149 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     FEATURE:
;       NAME/KEY:  Region
;       LOCATION:  1..1149
;       OTHER INFORMATION:  /note= "51c"
US-09-418-540-5

  Query Match             47.5%;  Score 38;  DB 3;  Length 1149;
  Best Local Similarity   50.0%;  Pred. No. 2.6e+02;
  Matches    7;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIH 14
              ||:|: |||    |
Db         48 PCLFLYRVSESRTH 61


RESULT 15
US-09-969-528-5
; Sequence 5, Application US/09969528
; Patent No. 6472197
;   GENERAL INFORMATION:
;       APPLICANT: Pot, David A.
;                  Williams, Lewis T.
;                  Jefferson, Anne Bennett
;                  Majerus, Philip W.
;       TITLE OF INVENTION: No. 6472197el Grb2 Associating Protein and Nucleic
;                           Acids Encoding Therefor
;       NUMBER OF SEQUENCES: 10
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Townsend and Townsend and Crew
;            STREET: One Market Plaza, Steuart Tower, Suite 2000
;            CITY: San Francisco
;            STATE: California
;            COUNTRY: USA
;            ZIP: 94105
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.25
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/969,528
;            FILING DATE: 01-Oct-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 08/560,005
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Dow, Karen B.
;            REGISTRATION NUMBER: 29,684
;            REFERENCE/DOCKET NUMBER: 2307K-0624000
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: 415-326-2400
;            TELEFAX: 415-326-2422
;   INFORMATION FOR SEQ ID NO: 5:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 1149 amino acids
;            TYPE: amino acid
;            TOPOLOGY: linear
;       MOLECULE TYPE: protein
;       FEATURE:
;            NAME/KEY:  Region
;            LOCATION:  1..1149
;            OTHER INFORMATION:  /note= "51c"
;       SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-969-528-5

  Query Match             47.5%;  Score 38;  DB 4;  Length 1149;
  Best Local Similarity   50.0%;  Pred. No. 2.6e+02;
  Matches    7;  Conservative    2;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIH 14
              ||:|: |||    |
Db         48 PCLFLYRVSESRTH 61


Search completed: April 19, 2004, 12:38:14
Job time : 15.6939 secs
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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:39 ; Search time 14.6939 Seconds
(without alignments)
52.702 Million cell updates/sec

Title: US-09-308-027A-2
Perfect score: 83
Sequence: 1 GATRDRPLWIIFSGN 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
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4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	83	100.0	20	3	US-08-467-023-32	Sequence 32, Appl
2	83	100.0	60	3	US-08-467-023-62	Sequence 62, Appl
3	83	100.0	374	3	US-08-467-023-2	Sequence 2, Appli
4	63	75.9	388	1	US-08-290-448A-80	Sequence 80, Appl
5	63	75.9	388	1	US-08-290-448A-80	Sequence 80, Appl
6	63	75.9	388	1	US-08-175-069A-80	Sequence 80, Appl
7	63	75.9	388	4	US-08-461-939B-80	Sequence 80, Appl
8	63	75.9	388	4	US-08-464-000-80	Sequence 80, Appl
9	60	72.3	367	3	US-08-467-023-95	Sequence 95, Appl
10	60	72.3	370	3	US-08-467-023-97	Sequence 97, Appl
11	57	68.7	20	3	US-08-467-023-31	Sequence 31, Appl
12	53	63.9	383	1	US-08-290-448A-78	Sequence 78, Appl
13	53	63.9	383	1	US-08-290-448A-78	Sequence 78, Appl
14	53	63.9	383	1	US-08-175-069A-78	Sequence 78, Appl
15	53	63.9	383	4	US-08-461-939B-78	Sequence 78, Appl
16	53	63.9	383	4	US-08-464-000-78	Sequence 78, Appl
17	53	63.9	387	1	US-08-290-448A-72	Sequence 72, Appl
18	53	63.9	387	1	US-08-290-448A-72	Sequence 72, Appl
19	53	63.9	387	1	US-08-175-069A-72	Sequence 72, Appl
20	53	63.9	387	4	US-08-461-939B-72	Sequence 72, Appl
21	53	63.9	387	4	US-08-464-000-72	Sequence 72, Appl
22	51	61.4	391	1	US-08-290-448A-59	Sequence 59, Appl
23	51	61.4	391	1	US-08-290-448A-59	Sequence 59, Appl
24	51	61.4	391	1	US-08-175-069A-59	Sequence 59, Appl
25	51	61.4	391	4	US-08-461-939B-59	Sequence 59, Appl
26	51	61.4	391	4	US-08-464-000-59	Sequence 59, Appl
27	51	61.4	398	1	US-08-290-448A-74	Sequence 74, Appl
28	51	61.4	398	1	US-08-290-448A-74	Sequence 74, Appl
29	51	61.4	398	1	US-08-175-069A-74	Sequence 74, Appl
30	51	61.4	398	4	US-08-461-939B-74	Sequence 74, Appl
31	51	61.4	398	4	US-08-464-000-74	Sequence 74, Appl
32	48	57.8	397	1	US-08-290-448A-76	Sequence 76, Appl
33	48	57.8	397	1	US-08-290-448A-76	Sequence 76, Appl
34	48	57.8	397	1	US-08-175-069A-76	Sequence 76, Appl
35	48	57.8	397	4	US-08-461-939B-76	Sequence 76, Appl
36	48	57.8	397	4	US-08-464-000-76	Sequence 76, Appl
37	45	54.2	792	4	US-09-543-681A-6617	Sequence 6617, Ap
38	44	53.0	3562	4	US-09-679-279-14	Sequence 14, Appl
39	41	49.4	452	4	US-09-489-039A-12558	Sequence 12558, A
40	41	49.4	2509	1	US-08-469-005A-10	Sequence 10, Appl
41	41	49.4	2511	3	US-09-261-907-2	Sequence 2, Appli
42	41	49.4	4928	3	US-09-036-987A-5	Sequence 5, Appli
43	41	49.4	4928	3	US-09-370-700-5	Sequence 5, Appli
44	41	49.4	4928	4	US-09-603-207-5	Sequence 5, Appli
45	40	48.2	3170	3	US-09-036-987A-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-467-023-32
; Sequence 32, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal

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US-08-467-023-32

  Query Match             100.0%;  Score 83;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 3.8e-08;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
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Db          1 GATRDRPLWIIFSGN 15


RESULT 2
US-08-467-023-62
; Sequence 62, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  62:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  60 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
US-08-467-023-62

  Query Match             100.0%;  Score 83;  DB 3;  Length 60;
  Best Local Similarity   100.0%;  Pred. No. 1.3e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
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Db          1 GATRDRPLWIIFSGN 15


RESULT 3
US-08-467-023-2
; Sequence 2, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  2:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  374 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-2

  Query Match             100.0%;  Score 83;  DB 3;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 1.1e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
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Db         82 GATRDRPLWIIFSGN 96


RESULT 4
US-08-290-448A-80
; Sequence 80, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
```

```
;       CITY:  Boston
;       STATE:  Massachusetts
;       COUNTRY:  USA
;       ZIP:  02109-1875
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/290,448A
;       FILING DATE:  August 15, 1994
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/529,951
;       FILING DATE:  May 29, 1990
;       APPLICATION NUMBER:  US 07/325,365
;       FILING DATE:  March 17, 1989
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Amy E. Mandragouras
;       REGISTRATION NUMBER:  36,207
;       REFERENCE/DOCKET NUMBER:  IMI-018CN
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (617)227-7400
;       TELEFAX:  (617)227-5941
;   INFORMATION FOR SEQ ID NO:  80:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  388 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-290-448A-80

  Query Match             75.9%;  Score 63;  DB 1;  Length 388;
  Best Local Similarity   91.7%;  Pred. No. 0.0037;
  Matches   11;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              |||:||||||||
Db        100 GATQDRPLWIIF 111


RESULT 5
US-08-290-448A-80
; Sequence 80, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  80:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  388 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-290-448A-80

  Query Match             75.9%;  Score 63;  DB 1;  Length 388;
  Best Local Similarity   91.7%;  Pred. No. 0.0037;
  Matches   11;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              |||:||||||||
Db        100 GATQDRPLWIIF 111


RESULT 6
US-08-175-069A-80
; Sequence 80, Application US/08175069A
; Patent No. 5776761
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/175,069A
;      FILING DATE:  December 29, 1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018DV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  80:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  388 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-175-069A-80

  Query Match             75.9%;  Score 63;  DB 1;  Length 388;
  Best Local Similarity   91.7%;  Pred. No. 0.0037;
  Matches   11;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;
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Qy          1 GATRDRPLWIIF 12
              |||:||||||||
Db        100 GATQDRPLWIIF 111


RESULT 7
US-08-461-939B-80
; Sequence 80, Application US/08461939B
; Patent No. 6335019
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Methods For Treating Sensitivity To A
;    TITLE OF INVENTION:  Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  28 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/461,939B
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/464,000
;      FILING DATE:  05-JUN-1995
;      APPLICATION NUMBER:  US 08/290,448
;      FILING DATE:  15-AUG-1994
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  29-MAY-1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  17-MAR-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CNDV
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)742-4214
;  INFORMATION FOR SEQ ID NO:  80:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  388 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-461-939B-80

  Query Match             75.9%;  Score 63;  DB 4;  Length 388;
  Best Local Similarity   91.7%;  Pred. No. 0.0037;
  Matches   11;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              |||:||||||||
Db        100 GATQDRPLWIIF 111


RESULT 8
US-08-464-000-80
; Sequence 80, Application US/08464000
; Patent No. 6335020
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Peptides from Ragweed Pollen
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/464,000
;      FILING DATE:  05-JUN-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/290,448
;      FILING DATE:  15-AUG-1994
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  29-MAY-1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  17-MAR-1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN2
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  80:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  388 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-464-000-80

  Query Match             75.9%;  Score 63;  DB 4;  Length 388;
  Best Local Similarity   91.7%;  Pred. No. 0.0037;
  Matches   11;  Conservative    1;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              |||:||||||||
Db        100 GATQDRPLWIIF 111


RESULT 9
US-08-467-023-95
; Sequence 95, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
```

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;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  95:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  367 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-95

  Query Match             72.3%;  Score 60;  DB 3;  Length 367;
  Best Local Similarity   73.3%;  Pred. No. 0.012;
  Matches   11;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
              ||||:: |||||| |
Db         82 GATREKALWIIFSQN 96


RESULT 10
US-08-467-023-97
; Sequence 97, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  97:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  370 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-467-023-97

  Query Match             72.3%;  Score 60;  DB 3;  Length 370;
  Best Local Similarity   73.3%;  Pred. No. 0.012;
  Matches   11;  Conservative    2;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIFSGN 15
              ||||:: |||||| |
Db         82 GATREKALWIIFSQN 96


RESULT 11
US-08-467-023-31
; Sequence 31, Application US/08467023
; Patent No. 6090386
;  GENERAL INFORMATION:
;    APPLICANT:  Griffeth, Irwin J.;
;    APPLICANT:  Pollock, Joanne;
;    APPLICANT:  Bond, Julian F.;
;    APPLICANT:  Garman, Richard D;
;    APPLICANT:  Kuo, Mei-Chang;
;    APPLICANT:  Yeung, Siu-mei H.;
;    APPLICANT:  Brauer, Andrew;
;    APPLICANT:  Exley, Mark A.;
;    APPLICANT:  Powers, Steven P.
;    TITLE OF INVENTION:  Allergenic Proteins And Peptides From
;    TITLE OF INVENTION:  Japanese Cedar Pollen
;    NUMBER OF SEQUENCES:  261
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  ImmuLogic Pharmaceutical Corporation, Inc.
;      STREET:  610 Lincoln St
;      CITY:  Waltham
;      STATE:  MA
;      COUNTRY:  USA
;      ZIP:  02154
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/467,023
;      FILING DATE:  June 6, 1995
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/350,225
;      FILING DATE:  December 6, 1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Jane E. Remillard
;      REGISTRATION NUMBER:  38,872
;      REFERENCE/DOCKET NUMBER:  025.6 USD2 (IMI-028CPD2)
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 227-7400
;      TELEFAX:  (617) 227-5941
;  INFORMATION FOR SEQ ID NO:  31:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  20 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
;    FRAGMENT TYPE:  internal
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US-08-467-023-31

  Query Match             68.7%;  Score 57;  DB 3;  Length 20;
  Best Local Similarity   100.0%;  Pred. No. 0.0015;
  Matches   10;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWI 10
              ||||||||||
Db         11 GATRDRPLWI 20


RESULT 12
US-08-290-448A-78
; Sequence 78, Application US/08290448A
; Patent No. 5676954
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  78:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  383 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-290-448A-78

  Query Match             63.9%;  Score 53;  DB 1;  Length 383;
  Best Local Similarity   75.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              || ::|||||||
Db        100 GAAQNRPLWIIF 111


RESULT 13
US-08-290-448A-78
; Sequence 78, Application US/08290448A
; Patent No. 5698204
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD
;      STREET:  60 State Street, suite 510
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/290,448A
;      FILING DATE:  August 15, 1994
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/529,951
;      FILING DATE:  May 29, 1990
;      APPLICATION NUMBER:  US 07/325,365
;      FILING DATE:  March 17, 1989
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Amy E. Mandragouras
;      REGISTRATION NUMBER:  36,207
;      REFERENCE/DOCKET NUMBER:  IMI-018CN
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617)227-7400
;      TELEFAX:  (617)227-5941
;  INFORMATION FOR SEQ ID NO:  78:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  383 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-290-448A-78

  Query Match             63.9%;  Score 53;  DB 1;  Length 383;
  Best Local Similarity   75.0%;  Pred. No. 0.21;
  Matches    9;  Conservative    2;  Mismatches    1;  Indels    0;  Gaps    0;

Qy          1 GATRDRPLWIIF 12
              || ::|||||||
Db        100 GAAQNRPLWIIF 111


RESULT 14
US-08-175-069A-78
; Sequence 78, Application US/08175069A
; Patent No. 5776761
;  GENERAL INFORMATION:
;    APPLICANT:  Rogers, Bruce
;    APPLICANT:  Klapper, David G.
;    APPLICANT:  Rafnar, Thorunn
;    APPLICANT:  Kuo, Mei-chang
;    TITLE OF INVENTION:  Allergenic Proteins From Ragweed and Uses
;    NUMBER OF SEQUENCES:  93
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  LAHIVE & COCKFIELD, LLP
;      STREET:  60 State Street
;      CITY:  Boston
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02109-1875
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/175,069A
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; FILING DATE: December 29, 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018DV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-175-069A-78

Query Match 63.9%; Score 53; DB 1; Length 383;
Best Local Similarity 75.0%; Pred. No. 0.21;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GATRDRPLWIIF 12
|| ::|||||||
Db 100 GAAQNRPLWIIF 111

RESULT 15
US-08-461-939B-78
; Sequence 78, Application US/08461939B
; Patent No. 6335019
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rafnar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Methods For Treating Sensitivity To A
; TITLE OF INVENTION: Protein Allergen Using Peptides Which Inlcude A T Cell Epitope
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/461,939B
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/464,000
; FILING DATE: 05-JUN-1995
; APPLICATION NUMBER: US 08/290,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CNDV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)742-4214
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-461-939B-78

Query Match 63.9%; Score 53; DB 4; Length 383;
Best Local Similarity 75.0%; Pred. No. 0.21;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GATRDRPLWIIF 12
|| ::|||||||
Db 100 GAAQNRPLWIIF 111

Search completed: April 19, 2004, 12:38:13
Job time : 14.6939 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: April 19, 2004, 11:03:05 ; Search time 68.3163 Seconds
(without alignments)
60.529 Million cell updates/sec

Title: US-09-308-027A-3
Perfect score: 80
Sequence: 1 PCVFIKRVSNVIIHG 15

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1124875 seqs, 275673149 residues

Total number of hits satisfying chosen parameters: 1124875

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
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15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	80	100.0	15	14	US-10-354-240-36	Sequence 36, Appl
2	80	100.0	15	14	US-10-354-240-159	Sequence 159, App
3	80	100.0	15	14	US-10-354-240-163	Sequence 163, App
4	80	100.0	374	10	US-09-847-208-68	Sequence 68, Appl
5	74	92.5	14	14	US-10-354-240-169	Sequence 169, App
6	73	91.2	14	14	US-10-354-240-164	Sequence 164, App
7	66	82.5	13	14	US-10-354-240-170	Sequence 170, App
8	64	80.0	13	14	US-10-354-240-13	Sequence 13, Appl
9	64	80.0	13	14	US-10-354-240-165	Sequence 165, App
10	64	80.0	13	14	US-10-354-240-174	Sequence 174, App
11	64	80.0	80	14	US-10-354-240-1	Sequence 1, Appli
12	64	80.0	105	14	US-10-354-240-2	Sequence 2, Appli
13	64	80.0	134	14	US-10-354-240-3	Sequence 3, Appli
14	62	77.5	12	14	US-10-354-240-171	Sequence 171, App
15	60	75.0	12	14	US-10-354-240-166	Sequence 166, App
16	58	72.5	11	14	US-10-354-240-172	Sequence 172, App
17	58	72.5	375	10	US-09-847-208-58	Sequence 58, Appl
18	57	71.2	206	12	US-10-424-599-230302	Sequence 230302,
19	57	71.2	346	10	US-09-847-208-67	Sequence 67, Appl
20	57	71.2	409	12	US-10-424-599-279664	Sequence 279664,
21	56	70.0	378	12	US-10-424-599-149825	Sequence 149825,
22	55	68.8	367	10	US-09-847-208-109	Sequence 109, App
23	54	67.5	10	14	US-10-354-240-173	Sequence 173, App
24	54	67.5	11	14	US-10-354-240-167	Sequence 167, App
25	54	67.5	15	14	US-10-354-240-35	Sequence 35, Appl
26	50	62.5	10	14	US-10-354-240-168	Sequence 168, App
27	50	62.5	15	14	US-10-354-240-37	Sequence 37, Appl
28	50	62.5	404	12	US-10-424-599-190695	Sequence 190695,
29	49	61.3	128	12	US-10-424-599-224393	Sequence 224393,
30	49	61.3	450	12	US-10-424-599-234547	Sequence 234547,
31	44	55.0	256	12	US-10-424-599-213740	Sequence 213740,
32	44	55.0	313	12	US-10-424-599-239010	Sequence 239010,
33	42	52.5	9	14	US-10-354-240-7	Sequence 7, Appli
34	42	52.5	31	14	US-10-354-240-4	Sequence 4, Appli
35	42	52.5	31	14	US-10-354-240-5	Sequence 5, Appli
36	41	51.2	33	14	US-10-029-386-33618	Sequence 33618, A
37	41	51.2	345	12	US-10-425-114-53141	Sequence 53141, A
38	39	48.8	94	12	US-10-424-599-153795	Sequence 153795,
39	39	48.8	150	12	US-10-425-114-60833	Sequence 60833, A
40	39	48.8	204	12	US-10-425-114-59698	Sequence 59698, A
41	39	48.8	318	12	US-10-377-097-108	Sequence 108, App
42	39	48.8	318	12	US-09-834-490-2	Sequence 2, Appli
43	39	48.8	318	14	US-10-241-220-70	Sequence 70, Appl
44	39	48.8	318	15	US-10-291-265-331	Sequence 331, App
45	39	48.8	318	15	US-10-291-265-803	Sequence 803, App

ALIGNMENTS

RESULT 1
US-10-354-240-36
; Sequence 36, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 22
US-10-354-240-36

Query Match 100.0%; Score 80; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PCVFIKRVSNVIIHG 15
||||||||||||||||
Db 1 PCVFIKRVSNVIIHG 15

```
RESULT 2
US-10-354-240-159
; Sequence 159, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 159
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   LOCATION: (1)..(15)
;   OTHER INFORMATION: Figure 7, Row b
US-10-354-240-159

  Query Match             100.0%;  Score 80;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 3.2e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |||||||||||||||
Db          1 PCVFIKRVSNVIIHG 15


RESULT 3
US-10-354-240-163
; Sequence 163, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 163
;   LENGTH: 15
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-1.
US-10-354-240-163

  Query Match             100.0%;  Score 80;  DB 14;  Length 15;
  Best Local Similarity   100.0%;  Pred. No. 3.2e-07;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |||||||||||||||
Db          1 PCVFIKRVSNVIIHG 15


RESULT 4
US-09-847-208-68
; Sequence 68, Application US/09847208
; Publication No. US20030082190A1
; GENERAL INFORMATION:
;  APPLICANT: Saxon, Andrew
;  APPLICANT:  Zhang, Ke
;  APPLICANT:  Zhu, Daocheng
;  TITLE OF INVENTION: FUSION MOLECULES AND TREATMENT OF
;  TITLE OF INVENTION:  IgE-MEDIATED ALLERGIC DISEASES
;  FILE REFERENCE: UC67.002A
;  CURRENT APPLICATION NUMBER: US/09/847,208
;  CURRENT FILING DATE:  2001-05-01
;  NUMBER OF SEQ ID NOS: 177
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 68
;   LENGTH: 374
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica (Japanese cedar)
US-09-847-208-68

  Query Match             100.0%;  Score 80;  DB 10;  Length 374;
  Best Local Similarity   100.0%;  Pred. No. 9.9e-06;
  Matches   15;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIHG 15
              |||||||||||||||
Db        127 PCVFIKRVSNVIIHG 141


RESULT 5
US-10-354-240-169
; Sequence 169, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 169
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-7.
US-10-354-240-169

  Query Match             92.5%;  Score 74;  DB 14;  Length 14;
  Best Local Similarity   100.0%;  Pred. No. 3.3e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVIIH 14
              ||||||||||||||
Db          1 PCVFIKRVSNVIIH 14
```

```
RESULT 6
US-10-354-240-164
; Sequence 164, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 164
;   LENGTH: 14
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-2.
US-10-354-240-164

  Query Match           91.2%;  Score 73;  DB 14;  Length 14;
  Best Local Similarity  100.0%;  Pred. No. 5e-06;
  Matches   14;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 CVFIKRVSNVIIHG 15
              ||||||||||||||
Db          1 CVFIKRVSNVIIHG 14


RESULT 7
US-10-354-240-170
; Sequence 170, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 170
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-8.
US-10-354-240-170

  Query Match           82.5%;  Score 66;  DB 14;  Length 13;
  Best Local Similarity  100.0%;  Pred. No. 7.9e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PCVFIKRVSNVII 13
              |||||||||||||
Db          1 PCVFIKRVSNVII 13


RESULT 8
US-10-354-240-13
; Sequence 13, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-13

  Query Match           80.0%;  Score 64;  DB 14;  Length 13;
  Best Local Similarity  100.0%;  Pred. No. 0.00018;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 VFIKRVSNVIIHG 15
              |||||||||||||
Db          1 VFIKRVSNVIIHG 13


RESULT 9
US-10-354-240-165
; Sequence 165, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 165
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figure 15, p22-3.
US-10-354-240-165

  Query Match           80.0%;  Score 64;  DB 14;  Length 13;
  Best Local Similarity  100.0%;  Pred. No. 0.00018;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 VFIKRVSNVIIHG 15
              |||||||||||||
```

```
Db          1 VFIKRVSNVIIHG 13


RESULT 10
US-10-354-240-174
; Sequence 174, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 174
;   LENGTH: 13
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
;   FEATURE:
;   NAME/KEY: MISC_FEATURE
;   OTHER INFORMATION: Figures 17 and 18.
US-10-354-240-174

  Query Match             80.0%;  Score 64;  DB 14;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 0.00018;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 VFIKRVSNVIIHG 15
              |||||||||||||
Db          1 VFIKRVSNVIIHG 13


RESULT 11
US-10-354-240-1
; Sequence 1, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 80
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-1

  Query Match             80.0%;  Score 64;  DB 14;  Length 80;
  Best Local Similarity   100.0%;  Pred. No. 0.0012;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 VFIKRVSNVIIHG 15
              |||||||||||||

Db         16 VFIKRVSNVIIHG 28


RESULT 12
US-10-354-240-2
; Sequence 2, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 105
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-2

  Query Match             80.0%;  Score 64;  DB 14;  Length 105;
  Best Local Similarity   100.0%;  Pred. No. 0.0017;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 VFIKRVSNVIIHG 15
              |||||||||||||
Db         16 VFIKRVSNVIIHG 28


RESULT 13
US-10-354-240-3
; Sequence 3, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
;  APPLICANT: Sone, Toshio
;  APPLICANT:  Kume, Akinori
;  APPLICANT:  Dairiki, Kazuo
;  APPLICANT:  Iwama, Akiko
;  APPLICANT:  Kino, Kohsuke
;  TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
;  FILE REFERENCE: SPO-103D1
;  CURRENT APPLICATION NUMBER: US/10/354,240
;  CURRENT FILING DATE:  2003-01-29
;  PRIOR APPLICATION NUMBER: PCT/JP97/00740
;  PRIOR FILING DATE: 1997-03-10
;  PRIOR APPLICATION NUMBER: US 09/142,524
;  PRIOR FILING DATE: 1998-09-09
;  NUMBER OF SEQ ID NOS: 174
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
;   LENGTH: 134
;   TYPE: PRT
;   ORGANISM: Cryptomeria japonica
US-10-354-240-3

  Query Match             80.0%;  Score 64;  DB 14;  Length 134;
  Best Local Similarity   100.0%;  Pred. No. 0.0022;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          3 VFIKRVSNVIIHG 15
              |||||||||||||
Db         16 VFIKRVSNVIIHG 28
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RESULT 14
US-10-354-240-171
; Sequence 171, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 171
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: Figure 15, p22-9.
US-10-354-240-171

Query Match 77.5%; Score 62; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.00037;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PCVFIKRVSNVI 12
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Db 1 PCVFIKRVSNVI 12

RESULT 15
US-10-354-240-166
; Sequence 166, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 166
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; OTHER INFORMATION: Figure 15, p22-4.
US-10-354-240-166

Query Match 75.0%; Score 60; DB 14; Length 12;
Best Local Similarity 100.0%; Pred. No. 0.00083;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 FIKRVSNVIIHG 15
||||||||||||
Db 1 FIKRVSNVIIHG 12

Search completed: April 19, 2004, 11:29:27
Job time : 69.3163 secs